



ScyTek
LABORATORIES

2023 Revision 1

Our Commitment to the Customer

We at ScyTek Laboratories, Inc. have committed ourselves to producing only the highest quality products for the laboratory market. Since the company was founded in 1991, ScyTek has continued to grow at a rapid rate as a result of our commitment to continuous improvement of each and every product line. In addition, aggressive pricing through vigilant cost containment and continuous improvements in efficiency combined with our commitment to quality have helped to foster strong customer bonds. While the majority of our business consists of producing custom reagents for the resale/OEM market, we still insist on providing only the highest quality service for those customers that use the product in their own laboratories.

Being a primary manufacturer allows ScyTek to continually identify areas that can be improved through the implementation of Kaizen and other manufacturing management techniques. Being a primary manufacturer also allows the customer to have maximum flexibility in the products specifications making ScyTek an ideal manufacturing partner. ScyTek has the ability to produce and vial products in various environmental conditions up to Class 1000. For our OEM customers, we have the capability of producing most any liquid or dry blend for the laboratory and can customize packaging to meet nearly any requirement. Whether the product is an off-the-shelf item, or one made specifically to meet the customer's needs, we are committed to delivering the product when expected and matching the anticipated specifications.

As the President of ScyTek Laboratories, Inc., I encourage you to contact me directly with any questions or comments regarding the performance of our company or our products.

Thank you, and we look forward to hearing from each and every customer in the following year.

Sincerely,

R. Michael Anderson
President/CEO

Ordering Information

Orders may be placed by telephone, telefax, e-mail, online or standard mail.

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Terms: Terms of payment are "net 30 days" from invoice date, FOB shipping point. Accounts with balance unpaid beyond terms of "net 30 days" are subject to a service charge of one and one-half percent (1.5%) per month on the unpaid balance.

Prices: Many of the resale items in this catalog are available at prices significantly lower than found with other vendors. ScyTek's deep discount policy requires that pricing be subject to change without notice. No minimum order is required for shipments within the United States. Shipments outside of the United States can be no less than \$100.00.

Discounts: Bulk discounts are available on almost any product in this catalog.

Guarantee: ScyTek Laboratories, Inc. guarantees that products conform to labeled description or they will be replaced or refunded. Product liability is limited to refunds or replacements for the value of the product. Prior authorization is required for all returns or refunds.

Liability: Many products in this catalog consist of hazardous materials. It is entirely the users responsibility to assure safe handling and usage.

The products in this catalog are for laboratory use only and are not to be used for therapeutic purposes or in any pharmaceutical products. ScyTek Laboratories, Inc. does not in any way, recommend use of these products in violation of any patent or license. It is the responsibility of the user to determine the existence of such patents or licenses.

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Enzyme Immunoassay

Diluents and Stabilizers

Ancillary (ELISA)

BRIJ 35 Solution (25-30%)

BRIJ 35 Solution is a nonionic polyoxyethylene surfactant used in a variety of protein methods. The reagent is an aqueous base containing 25-30% w/v proteomics grade BRIJ 35 making it optimal for use as a wetting agent in immunohistochemical reagents.

<u>Catalog Number</u>	<u>Volume</u>
BRJ500	500 ml
BRJ999	1000 ml

ELISA Kits

Easy ELISA HRP Kit

Complete "Do it Yourself" ELISA system.

The first ELISA system designed to deliver superior results to each and every research project, regardless of the level of technician expertise. Everything that is required to obtain outstanding results is included in one convenient package. Easy ELISA has been specifically developed to create an environment in which the researcher can be assured of consistent results with each project. All of the reagents contained in Easy ELISA are stable enough to ship at ambient temperature.

Contents:

Super Block	125 ml
HRP Stabilizing Diluent	125 ml
Binding Buffer	125 ml
Coating Stabilizer	125 ml
TMB Soluble Reagent	125 ml
TMB Stop Buffer	125 ml
Sample Diluent	125 ml
Wash Buffer (10X PBS)	500 ml

<u>Catalog Number</u>	<u>Volume</u>
EEH-1	1 kit(s)

Alk-Phos Stabilizing Diluent

This reagent is formulated specifically for Alkaline Phosphatase conjugates. The product insures consistently high levels of activity for both the enzyme and the antibody following long-term storage at final dilution. This product has been chemically engineered to increase conjugate stability providing the customer a longer shelf life, resistance to various shipping conditions and storage temperatures. Alk-Phos Stabilizing Diluent is filtered at 0.2 um and reinforced with a non-mercury or azide-free preservative. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
APD500	500 ml
APD999	1000 ml

Coating Stabilizer

Coating Stabilizer has been developed specifically for the stabilization of adsorbed or immobilized proteins on microwell plates/strips. Coating Stabilizer maintains the conformation and activity of the antibody or protein antigen portion of the dried immunoassay components. Product is filtered at 0.2 microns.

Contents: Aqueous, protein-containing stabilizer and blocking solution in phosphate buffer for dried protein components in immunoassays.

Preservative: 0.02% Bromonitrodioxane, 0.02% 2-Methyl-4-isothiazolin-3-one.

pH 7.2 - 7.7

<u>Catalog Number</u>	<u>Volume</u>
CSB125	125 ml
CSB500	500 ml
CSB999	1000 ml

ELISA Sample Diluent

This reagent is formulated for use as a sample diluent to ensure that the analyte is measured accurately. It is used to dilute the sample within the assay target range.

<u>Catalog Number</u>	<u>Volume</u>
ESD125	125 ml
ESD500	500 ml
ESD999	1000 ml

Enzyme Label Diluent

Provided as a ready-to-use diluent for enzyme labeled antibodies and streptavidin/avidin enzyme conjugates. Diluted reagents can be stored at 2-8 deg. C for up to 18 months at immunohistochemical dilutions. This reagent is subjected to 0.2 micron filtration.

<u>Catalog Number</u>	<u>Volume</u>
ABI500	500 ml
ABI999	1000 ml

HRP Stabilizing Diluent (MOPS Buffered)

HRP Stabilizing Diluent (MOPS Buffered) has been developed specifically for the stabilization of Horseradish Peroxidase conjugates in solution. HRP Stabilizer prevents the loss of catalytic activity and maintains the conformation of the antibody or protein antigen portion of the conjugate. Product is filtered at 0.2 microns.

Contents: Aqueous, protein-containing diluent and stabilizer for Horseradish Peroxidase conjugates.

Preservative: 0.02% Bromonitrodioxane, 0.02% 2-Methyl-4-isothiazolin-3-one, 0.005% Proclin 300 (Proclin is a registered trademark of Rohm & Haas Company), and 0.0008% Neomycin.

<u>Catalog Number</u>	<u>Volume</u>
HSM125	125 ml
HSM500	500 ml
HSM999	1000 ml

HRP Stabilizing Diluent (Phosphate Buffered)

This product has been developed to significantly increase the shelf life of diluted peroxidase labeled proteins. Stability is increased at room temperature storage conditions in addition to 2-8 centigrade. This product is subjected to 0.45 micron filtration, and contains no mercury or azide. This formulation insures consistently high levels of activity for both the enzyme and the antibody following long-term storage at final-use dilution. HRP Stabilizer greatly improves the signal to noise ratios which increases the immunoassay sensitivity and offers cleaner assays. This product has been chemically engineered to increase conjugate stability providing the customer a longer shelf life, resistance to various shipping conditions & storage temperatures and improved day to day assay precision.

This product is recommended to be used in conjunction with ScyTek's proprietary Coating Stabilizer, Blocking Buffer (Super Block), Washing solution, TMB and Stopping Solution. All of the ELISA products are available in bulk quantities, including custom lot sizes up to 5000 liters. ScyTek Laboratories, Inc. specializes in custom manufacturing, vialing, labeling and packaging. Call today for a quote 800-729-8350.

<u>Catalog Number</u>	<u>Volume</u>
HSB500	500 ml
HSB999	1000 ml

Normal Antibody Diluent (Phosphate Buffered)

Provided as a ready-to-use diluent for primary antibodies and link/secondary antibodies. In most cases, antibodies diluted in this reagent can be stored at 4-8 deg. C for up to 18 months. Diluent is subjected to 0.2 micron filtration.

<u>Catalog Number</u>	<u>Volume</u>
ABB125	125 ml
ABB500	500 ml
ABB999	1000 ml

Normal Antibody Diluent (Phosphate Buffered) without BSA

Provided as a ready-to-use diluent for primary antibodies and link/secondary antibodies. Diluent is subjected to 0.2 micron filtration. For longterm storage of diluted antibodies, a carrier protein should be added.

<u>Catalog Number</u>	<u>Volume</u>
ABD999	1000 ml

Normal Antibody Diluent (Tris Buffered)

Provided as a ready-to-use diluent for primary antibodies and link/secondary antibodies. In most cases, antibodies diluted in this reagent can be stored at 4-8 deg. C for up to 18 months. Diluent is subjected to 0.2 micron filtration.

<u>Catalog Number</u>	<u>Volume</u>
ADT125	125 ml
ADT500	500 ml
ADT999	1000 ml

Blocking Reagents (ELISA)**Coating Stabilizer**

Coating Stabilizer has been developed specifically for the stabilization of adsorbed or immobilized proteins on microwell plates/strips. Coating Stabilizer maintains the conformation and activity of the antibody or protein antigen portion of the dried immunoassay components. Product is filtered at 0.2 microns.

Contents: Aqueous, protein-containing stabilizer and blocking solution in phosphate buffer for dried protein components in immunoassays.

Preservative: 0.02% Bromonitrodioxane, 0.02% 2-Methyl-4-isothiazolin-3-one.

pH 7.2 - 7.7

<u>Catalog Number</u>	<u>Volume</u>
CSB125	125 ml
CSB500	500 ml
CSB999	1000 ml

EZ Block

EZ Block has been developed to use with immunolabeling techniques for the reduction of nonspecific background staining, and simultaneously reducing the handling of animal serums in the laboratory. The need to match species with the secondary antibody is eliminated due to the lack of normal serum in this product. EZ Block has been shown to be effective for immunohistochemical, ELISA, blot and In-situ techniques and requires no mixing or diluting.

<u>Catalog Number</u>	<u>Volume</u>
EZB125	125 ml
EZB500	500 ml
EZB999	1000 ml

Pro-Block

Is a unique serum-free protein block for immunochemistry. Pro-Block eliminates the need for matching species with the link antibody and is often, more effective at reducing non-specific background staining than normal serum.

Pro-Block is similar to Super Block, but without casein. The reagent is filtered at 0.2 microns.

<u>Catalog Number</u>	<u>Volume</u>
PBK125	125 ml
PBK500	500 ml
PBK999	1000 ml
PBK010	10 L
PBK-20000	20 L

Super Block

Super Block is a unique serum-free blocking of non-specific antibody binding in IHC, ELISA and western blot. Super Block eliminates the need for matching species with the link antibody and is often, more effective at reducing non-specific background staining than normal serum. Ready-to-use no mixing required Super Block reduces the handling of animal serums in the laboratory. A streamlined formulation without normal serum in the product eliminates the need to match species with the secondary antibody.

Summary Protocol:

IHC: Incubate on tissue section prior to application of the primary antibody.

ELISA: Add Super Block to microtiter well and incubate prior to addition of sample. Rinse and continue procedure.

Western Blot: An effective blocker for this technique at room temperature.

<u>Catalog Number</u>	<u>Volume</u>
AAA125	125 ml
AAA500	500 ml
AAA999	1000 ml

Chromogens (ELISA)**Soluble****TMB Soluble Reagent (High Sensitivity)**

TMB - This high sensitivity liquid substrate for peroxidase consists of Tetramethylbenzidine (TMB) plus dilute hydrogen peroxide in a single-reagent stabilized form. The reagent has been specifically formulated for measuring peroxidase in ELISA systems which is stable for long-term storage providing sensitivity greater than OPD. This reagent is available as a single component, ready-to-use reagent. When used in conjunction with our proprietary TMB Stop Buffer (TSB), the resulting color product will not fade or darken for several hours. Our TMB products have been in production for over twenty years and have built a reputation for robust performance, unparalleled stability and next to zero lot-to-lot variation. Each TMB formulation can be specifically engineered to meet the needs of your specific assay. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
TM4125	125 ml
TM4500	500 ml
TM4999	1000 ml
TM4010	10 L

TMB Soluble Reagent (Standard Sensitivity)

TMB - This standard sensitivity liquid substrate for peroxidase consists of Tetramethylbenzidine (TMB) plus dilute hydrogen peroxide in a single-reagent stabilized form. The reagent has been specifically formulated for measuring peroxidase in ELISA systems which is stable for long-term storage providing sensitivity greater than OPD. This reagent is available as a single component, ready-to-use reagent. When used in conjunction with our proprietary TMB Stop Buffer (TSB), the resulting color product will not fade or darken for several hours. Our TMB products have been in production for over twenty years and have built a reputation for robust performance, unparalleled stability and next to zero lot-to-lot variation. Each TMB formulation can be specifically engineered to meet the needs of your specific assay. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
TM1125	125 ml
TM1500	500 ml
TM1999	1000 ml

TMB Stop Buffer

ScyTek's Stop Buffer (TSB) offers a unique combination of acid that produces a more stable stopped reaction product than other formulations of H₂SO₄ or HCL. Stopped reactions show increased absorbance values of approximately two-fold over unstopped reactions with minimal drift for up to six hours depending on various conditions. This reagent can be customized to meet each customer's specific needs. Inquire about custom vialing, labeling, kit assembly and drop shipping.

Catalog Number	Volume
TSB125	125 ml
TSB500	500 ml
TSB999	1000 ml

Precipitating**AEC Chromogen/Substrate Bulk Kit**

3-Amino-9-Ethylcarbazole, AEC Chromogen Concentrate and AEC Substrate is a widely used chromogen for immunohistochemical staining and immunoblotting. When in the presence of the peroxidase enzyme, AEC produces a vivid red end product that is soluble in alcohol. Stained slides must be mounted in any commercially available mounting media. This product is available in a convenient two component form: AEC Chromogen Concentrate and AEC Substrate. For maximum flexibility, this product is available in bulk amounts or dropper-top.

Summary Protocol:

Incubate on tissue section after application of the primary antibody.

Catalog Number	Volume
ACJ500	515 ml
ACJ999	1030 ml

BCIP/INT Solution

5-Bromo-4-Chloro-3-Indolyl Phosphate/p-Iodonitrotetrazolium (BCIP/INT) Solution

Is a chromogen used in immunohistochemical and in-situ staining. This reagent is available as a single component, ready-to-use reagent. When in the presence of the Alkaline-Phosphatase enzyme, BCIP/INT produces a brown precipitate that is soluble in alcohol.

Catalog Number	Volume
ACL125	125 ml
ACL500	500 ml
ACL999	1000 ml

BCIP/NBT Solution

5-Bromo-4-Chloro-3-Indolyl Phosphate/nitroblue Tetrazolium (BCIP/NBT) Solution

Is a widely used chromogen for immunohistochemical and in-situ staining. This reagent is available as a single component, ready-to-use reagent. When in the presence of the Alkaline-Phosphatase enzyme, BCIP/NBT produces a purple precipitate that is soluble in alcohol.

Catalog Number	Volume
ACN125	125 ml
ACN500	500 ml
ACN999	1000 ml

DAB Chromogen/Substrate Bulk pack

3,3'-Diaminobenzidine (DAB) Concentrate is a widely used chromogen for immunohistochemical staining and immunoblotting. When in the presence of the peroxidase enzyme, DAB produces a brown precipitate that is insoluble in alcohol. Stained slides may be mounted in any commercially available permanent mounting media. This product is available in a convenient two component form. For maximum flexibility, this product is available in bulk amounts or dropper-top.

Summary Protocol:

Incubate on tissue section after application of the primary antibody.

Catalog Number	Volume
ACK500	530 ml
ACK999	1060 ml

DAB Chromogen/Substrate Bulk Pack (High Contrast)

This product has been developed for applications that require high contrast between the chromogen and Hematoxylin counterstain. The resulting stain is a darker brown than standard DAB and more sensitive. ScyTek recommends using Hematoxylin for Automation (catalog # HAQ500) for optimal contrast. 3,3'-Diaminobenzidine (DAB) is a widely used chromogen for immunohistochemical staining and immunoblotting. When in the presence of peroxidase enzyme, DAB produces a brown precipitate that is insoluble in alcohol. This product is available in a two-component form which consists of a liquid, refrigerator stable DAB Chromogen and DAB Substrate (High Contrast). The standard working dilution is 50ul (0.9mg) of DAB Chromogen per 1ml of DAB Substrate (High Contrast), although the ratio can be adjusted as desired. The use of liquid components reduces some risks associated with handling powders, ie. dust inhalation, and eliminates waste which often results from using tablets that require a predetermined final volume. Once the two components are combined, the reagent can be used for up to six hours, ideal for automated stainers.

Summary Protocol:

Incubate on tissue section after application of the primary antibody.

Catalog Number	Volume
ACV500	530 ml
ACV999	1060 ml

TMB Precipitating (High Sensitivity)

This liquid substrate for peroxidase consists of tetramethylbenzidine (TMB) plus dilute hydrogen peroxide in a single-reagent stabilized form. The reagent has been specifically formulated for measuring peroxidase on membranes and other surfaces and is not intended for use in microwell applications. This reagent is stable for long-term storage, and provides sensitivity equal to, or greater than, that of other commercially available chromogens.

Catalog Number	Volume
TM5125	125 ml
TM5500	500 ml
TM5999	1000 ml

TMB Precipitating (Standard Sensitivity)

This liquid substrate for peroxidase consists of tetramethylbenzidine (TMB) plus dilute hydrogen peroxide in a single-reagent stabilized form. The reagent has been specifically formulated for measuring peroxidase on membranes and other surfaces and is not intended for use in microwell applications.

This reagent is stable for long-term storage, and provides sensitivity equal to, or greater than, that of other commercially available chromogens.

<u>Catalog Number</u>	<u>Volume</u>
TM3125	125 ml
TM3500	500 ml
TM3999	1000 ml

Buffers**ELISA Binding Buffer**

Formulated to maximize the adsorption efficiency of antibodies and antigens onto polystyrene plate surfaces. This reagent is ready-to-use and requires no modification prior to use.

<u>Catalog Number</u>	<u>Volume</u>
EBB125	125 ml
EBB500	500 ml
EBB999	1000 ml

Phosphate Buffered Saline (10x) pH 7.4

ScyTek Phosphate Buffered Saline (10x) pH 7.4 is an optimal formulation of pH stabilizers and salts designed to effectively remove excess material from the microtiter plate wells without disrupting the ELISA binding reaction. By maintaining the proper buffering environment, unbound components can be washed away without suppressing antigen-antibody binding interactions, thereby reducing nonspecific background and increasing the specific signal. Our Wash buffers do not contain hazardous preservatives such as Azide or Mercury that may interfere with antibody-antigen binding interactions. For your convenience wash buffer is offered in a wide variety of formulations to meet the needs of your specific ELISA application. This product can be customized to meet the specific needs of your assay. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
PBD500	500 ml
PBD999	1000 ml
PBD010	10 L
PBD-20000	20 L

Phosphate Buffered Saline (25x) pH 7.6

ScyTek Phosphate Buffered Saline (25x) a perfect wash buffer for use with immunolabeling techniques such as IHC.

ScyTek Phosphate Buffered Saline (25x) is an optimal formulation of pH stabilizers, salts and detergents designed to effectively remove excess material from the microtiter plate wells without disrupting the ELISA binding reaction. By maintaining the proper buffering environment, unbound components can be washed away without suppressing antigen-antibody binding interactions, thereby reducing nonspecific background and increasing the specific signal. Our Wash buffers do not contain hazardous preservatives such as Azide or Mercury that may interfere with antibody-antigen binding interactions. For your convenience wash buffer is offered in a wide variety of formulations to meet the needs of your specific application. This product can be customized to meet the specific needs of your assay. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
PBS125	125 ml
PBS500	500 ml
PBS999	1000 ml
PBS010	10 L
PBS-20000	20 L

Phosphate Buffered Saline plus Tween 20 (10x) pH 7.4

ScyTek Phosphate Buffered Saline + Tween 20 (10x) pH of 7.4 is an optimal formulation of pH stabilizers, salts and detergents designed to effectively remove excess material from the microtiter plate wells without disrupting the ELISA binding reaction. By maintaining the proper buffering environment, unbound components can be washed away without suppressing antigen-antibody binding interactions, thereby reducing nonspecific background and increasing the specific signal. Our Wash buffers do not contain hazardous preservatives such as Azide or Mercury that may interfere with antibody-antigen binding interactions. For your convenience wash buffer is offered in a wide variety of formulations to meet the needs of your specific ELISA application. This product can be customized to meet the specific needs of your assay. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
PBE500	500 ml
PBE999	1000 ml
PBE010	10 L
PBE-20000	20 L

Phosphate Buffered Saline plus Tween 20 (20x) pH 7.6

ScyTek Phosphate Buffered Saline plus Tween 20 (20x) a perfect wash buffer for use with immunolabeling techniques such as IHC.

ScyTek Phosphate Buffered Saline plus Tween 20 (20x) is an optimal formulation of pH stabilizers, salts and detergents designed to effectively remove excess material from the microtiter plate wells without disrupting the ELISA binding reaction. By maintaining the proper buffering environment, unbound components can be washed away without suppressing antigen-antibody binding interactions, thereby reducing nonspecific background and increasing the specific signal. Our Wash buffers do not contain hazardous preservatives such as Azide or Mercury that may interfere with antibody-antigen binding interactions. For your convenience wash buffer is offered in a wide variety of formulations to meet the needs of your specific application. This product can be customized to meet the specific needs of your assay. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
PBT500	500 ml
PBT999	1000 ml
PBT010	10 L
PBT-20000	20 L

Tris Buffered Saline (10x) pH 7.5

ScyTek Tris Buffered Saline (10x) pH of 7.5 is an optimal formulation of pH stabilizers, salts and detergents designed to effectively remove excess material from the microtiter plate wells without disrupting the ELISA binding reaction. By maintaining the proper buffering environment, unbound components can be washed away without suppressing antigen-antibody binding interactions, thereby reducing nonspecific background and increasing the specific signal. Our Wash buffers do not contain hazardous preservatives such as Azide or Mercury that may interfere with antibody-antigen binding interactions. For your convenience wash buffer is offered in a wide variety of formulations to meet the needs of your specific ELISA application. This product can be customized to meet the specific needs of your assay. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
TBD500	500 ml
TBD999	1000 ml
TBD010	10 L
TBD-20000	20 L

Tris Buffered Saline (25x) pH 7.4

ScyTek Tris Buffered Saline (25x) a perfect wash buffer for use with immunolabeling techniques such as IHC.

ScyTek Tris Buffered Saline (25x) is an optimal formulation of pH stabilizers, salts and detergents designed to effectively remove excess material from the microtiter plate wells without disrupting the ELISA binding reaction. By maintaining the proper buffering environment, unbound components can be washed away without suppressing antigen-antibody binding interactions, thereby reducing nonspecific background and increasing the specific signal. Our Wash buffers do not contain hazardous preservatives such as Azide or Mercury that may interfere with antibody-antigen binding interactions. For your convenience wash buffer is offered in a wide variety of formulations to meet the needs of your specific application. This product can be customized to meet the specific needs of your assay. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
TBS500	500 ml
TBS999	1000 ml
TBS010	10 L
TBS-20000	20 L

Tris Buffered Saline plus Tween 20 (10x) pH 7.5

ScyTek Tris Buffered Saline + Tween 20 (10x) pH of 7.5 is an optimal formulation of pH stabilizers, salts and detergents designed to effectively remove excess material from the microtiter plate wells without disrupting the ELISA binding reaction. By maintaining the proper buffering environment, unbound components can be washed away without suppressing antigen-antibody binding interactions, thereby reducing nonspecific background and increasing the specific signal. Our Wash buffers do not contain hazardous preservatives such as Azide or Mercury that may interfere with antibody-antigen binding interactions. For your convenience wash buffer is offered in a wide variety of formulations to meet the needs of your specific ELISA application. This product can be customized to meet the specific needs of your assay. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
TBE500	500 ml
TBE999	1000 ml
TBE010	10 L
TBE-20000	20 L

Tris Buffered Saline plus Tween 20 (20x Concentrate) pH 7.4

ScyTek Tris Buffered Saline plus Tween 20 (20x) is a perfect wash buffer for use with immunolabeling techniques such as IHC or ELISA.

ScyTek Tris Buffered Saline plus Tween 20 (20x) is an optimal formulation of pH stabilizers, salts and detergents designed to effectively remove excess material from the microtiter plate wells without disrupting the ELISA binding reaction. By maintaining the proper buffering environment, unbound components can be washed away without suppressing antigen-antibody binding interactions, thereby reducing nonspecific background and increasing the specific signal. Our Wash buffers do not contain hazardous preservatives such as Azide or Mercury that may interfere with antibody-antigen binding interactions. For your convenience wash buffer is offered in a wide variety of formulations to meet the needs of your specific application. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
TBT500	500 ml
TBT999	1000 ml
TBT010	10 L
TBT-20000	20 L

Immunohistochemistry

Control Slides

Alpha-1-Fetoprotein Control Slides

Alpha-1-Fetoprotein Control Slides - Fetal and Adult Liver

For Research Use Only

<u>Catalog Number</u>	<u>Volume</u>
ICS2001-25	25 Slides

B-Cell, CD45RA Control Slides

B-Cell, CD45RA Control Slides - Human Lymphoid

For Research Use Only

<u>Catalog Number</u>	<u>Volume</u>
ICS2002-25	25 Slides

Bcl-2 Control Slides

Bcl-2 Control Slides - Human Lymphoid

For Research Use Only

<u>Catalog Number</u>	<u>Volume</u>
ICS2003-25	25 Slides

Bromodeoxyuridine Control Slides

Bromodeoxyuridine Control Slides - Human Colon

For Research Use Only

<u>Catalog Number</u>	<u>Volume</u>
ICS2004-25	25 Slides

CD20 (L26) Control Slides

CD20 (L26) Control Slides - Human Lymphoid

For Research Use Only

<u>Catalog Number</u>	<u>Volume</u>
ICS2008-25	25 Slides

CD3 Control Slides

CD3 Control Slides - Human Lymphoid

For Research Use Only

<u>Catalog Number</u>	<u>Volume</u>
ICS2005-25	25 Slides

CD30 (Ki-1) Control Slides

CD30 (Ki-1) Control Slides - Human Lymphoid

For Research Use Only

<u>Catalog Number</u>	<u>Volume</u>
ICS2009-25	25 Slides

CD43 Control Slides

CD43 Control Slides - Human Lymphoid

For Research Use Only

<u>Catalog Number</u>	<u>Volume</u>
ICS2010-25	25 Slides

CD5 Control Slides

CD5 Control Slides - Human Lymphoid

For Research Use Only

<u>Catalog Number</u>	<u>Volume</u>
ICS2006-25	25 Slides

CD8 Control Slides

CD8 Control Slides - Human Lymphoid

For Research Use Only

<u>Catalog Number</u>	<u>Volume</u>
ICS2007-25	25 Slides

CEA Control Slides

CEA Control Slides - Human Colon

For Research Use Only

<u>Catalog Number</u>	<u>Volume</u>
ICS2012-25	25 Slides

Chromogranin Control Slides

Chromogranin Control Slides - Human Pancreas

For Research Use Only

<u>Catalog Number</u>	<u>Volume</u>
ICS2013-25	25 Slides

Cytokeratin (mono) Control Slides

Cytokeratin (mono) Control Slides - Human Skin

For Research Use Only

<u>Catalog Number</u>	<u>Volume</u>
ICS2014-25	25 Slides

Cytokeratin (poly) Control Slides

Cytokeratin (poly) Control Slides - Human Skin

For Research Use Only

<u>Catalog Number</u>	<u>Volume</u>
ICS2015-25	25 Slides

Desmin Control Slides

Desmin Control Slides - Human Leiomyoma

For Research Use Only

<u>Catalog Number</u>	<u>Volume</u>
ICS2017-25	25 Slides

EMA Control Slides

EMA Control Slides - Human Kidney

For Research Use Only

<u>Catalog Number</u>	<u>Volume</u>
ICS2018-25	25 Slides

Factor VIII Control Slides

Factor VIII Control Slides - Human Lymphoid

For Research Use Only

<u>Catalog Number</u>	<u>Volume</u>
ICS2019-25	25 Slides

Glucagon Control Slides

Glucagon Control Slides - Human Pancreas

For Research Use Only

<u>Catalog Number</u>	<u>Volume</u>
ICS2020-25	25 Slides

Hepatitis B Core Ant Control Slides

Hepatitis B Core Anterior Control Slides - Human Liver

For Research Use Only

<u>Catalog Number</u>	<u>Volume</u>
ICS2021-25	25 Slides

Hepatitis B Surface Control Slides

Hepatitis B Surface Control Slides - Human Liver

For Research Use Only

<u>Catalog Number</u>	<u>Volume</u>
ICS2022-25	25 Slides

HMB 45 Control Slides

HMB 45 Control Slides - Human Skin

For Research Use Only

<u>Catalog Number</u>	<u>Volume</u>
ICS2023-25	25 Slides

HSV-1 Control Slides

HSV-1 Control Slides - Human Lung

For Research Use Only

<u>Catalog Number</u>	<u>Volume</u>
ICS2024-25	25 Slides

HSV-2 Control Slides

HSV-2 Control Slides - Human Lung

For Research Use Only

<u>Catalog Number</u>	<u>Volume</u>
ICS2025-25	25 Slides

Insulin Control Slides

Insulin Control Slides - Human Pancreas

For Research Use Only

<u>Catalog Number</u>	<u>Volume</u>
ICS2026-25	25 Slides

Kappa Control Slides

Kappa Control Slides - Human Lymphoid

For Research Use Only

<u>Catalog Number</u>	<u>Volume</u>
ICS2027-25	25 Slides

Lambda Control Slides

Lambda Control Slides - Human Lymphoid

For Research Use Only

<u>Catalog Number</u>	<u>Volume</u>
ICS2028-25	25 Slides

LCA Control Slides

LCA Control Slides - Human Lymphoid

For Research Use Only

<u>Catalog Number</u>	<u>Volume</u>
ICS2029-25	25 Slides

LN 2 Control Slides

LN 2 Control Slides - Human Lymphoid

For Research Use Only

<u>Catalog Number</u>	<u>Volume</u>
ICS2030-25	25 Slides

NSE Control Slides

NSE Control Slides - Human Pancreas

For Research Use Only

<u>Catalog Number</u>	<u>Volume</u>
ICS2031-25	25 Slides

P53 Protein Control Slides

P53 Protein Control Slides - Human Colon

For Research Use Only

<u>Catalog Number</u>	<u>Volume</u>
ICS2032-25	25 Slides

PSA Control Slides

PSA Control Slides - Human Prostate

For Research Use Only

<u>Catalog Number</u>	<u>Volume</u>
ICS2033-25	25 Slides

PSAP Control Slides

PSAP Control Slides - Human Prostate

For Research Use Only

<u>Catalog Number</u>	<u>Volume</u>
ICS2034-25	25 Slides

S-100 Control Slides

S-100 Control Slides - Human Nerve

For Research Use Only

<u>Catalog Number</u>	<u>Volume</u>
ICS2035-25	25 Slides

Somatostatin Control Slides

Somatostatin Control Slides - Human Pancreas

For Research Use Only

<u>Catalog Number</u>	<u>Volume</u>
ICS2036-25	25 Slides

Synaptophysin Control Slides

Synaptophysin Control Slides - Human Pancreas

For Research Use Only

<u>Catalog Number</u>	<u>Volume</u>
ICS2037-25	25 Slides

T-Cell, CD45RO Control Slides

T-Cell, CD45RO Control Slides - Human Lymphoid

For Research Use Only

<u>Catalog Number</u>	<u>Volume</u>
ICS2038-25	25 Slides

Vimentin Control Slides

Vimentin Control Slides - Human Tumor

For Research Use Only

<u>Catalog Number</u>	<u>Volume</u>
ICS2039-25	25 Slides

UltraTek**UltraTek Kits****UltraTek HRP****Retrieval HRP Anti-Polyvalent Lab Pack**

The Retrieval Lab Pack is the optimal kit for the retrieval process. It is designed to provide crisp staining with incubation times of 10 minutes for the Link Antibody and Enzyme Label. The antibodies have been highly purified and specially formulated to assure crisp, clear staining when used in conjunction with each other.

Contains: Citrate Plus, Super Block, Anti-Polyvalent, and HRP

<u>Catalog Number</u>	<u>Volume</u>
RLP015	150 Slides
RLP125	1250 Slides
RLP500	5000 Slides
RLP999	10000 Slides

UltraTek Complete System; Anti-Polyvalent, HRP, DAB

The UltraTek staining kit provides unmatched sensitivity with incubation times of 10 minutes each for the Link Antibody and Enzyme Label. The bulk kits are ideal for high volume laboratories. Each Pack contains all you need for your stain; Super Block (universal protein block), Peroxide Block, Biotinylated Antibody (Polyvalent), and Horseradish Peroxidase Labeled Streptavidin, DAB High Contrast chromogen and substrate. This complete system provides an extremely economical alternative for automated staining systems and we encourage you to evaluate the addition of this in your current system.

Contains: Super Block.
Peroxide Block
UltraTek Antipolyvalent
UltraTek HRP
High Contrast DAB Substrate
DAB Chromogen
Hematoxylin
Bluing Reagent

<u>Catalog Number</u>	<u>Volume</u>
UCS015	1 kit(s)
UCS125	1 kit(s)

UltraTek HRP Anti-Mouse (AEC) Staining System

UltraTek HRP Anti-Mouse (AEC) Staining System, AKB80, 70 slides, Mouse specific HRP/AEC IHC Detection Kit is a complete kit to detect primary antibody with mouse origin by using an HRP-labeled-streptavidin and a biotinylated anti-mouse secondary antibody.

The complete ScyTek kit is supplied with full instructions for use and supplied with ScyTek's proprietary formulations of peroxidase block (ACA) and Super Block (AAA) a protein blocking reagent, a biotinylated secondary antibody UltraTek Anti-Mouse (ABJ), UltraTek Horseradish Peroxidase (ABL) streptavidin-HRP and AEC Chromogen/Substrate for a crisp clear red final stain.

Summary Protocol:

Incubation with an unconjugated primary antibody specific to the target antigen.
 The primary antibody is bound to the biotinylated secondary antibody.
 The secondary antibody is then bound to the HRP-Labeled streptavidin.
 A red color is created when the HRP is bound to site of the primary antibody by reacting with AEC.

Kit Components:

- Peroxide Block - 1 x 8ml - ACA008
- Super Block - 1 x 8ml - AAA008
- UltraTek Anti-Mouse - 1 x 8ml - ABJ008
- UltraTek HRP - 1 x 8 ml - ABL008
- AEC Chromogen - 1 x 3ml - ACD003
- AEC Substrate - 7 x 5ml - ACE005

Alternate streptavidin-biotin IHC detection kits:

- Anti-Mouse /Anti-Rabbit HRP-AEC IHC kit - UltraTek HRP Anti-Polyvalent (AEC) Staining System - AMG080.
- Anti-Rabbit HRP-AEC IHC Kit - UltraTek HRP Anti-Rabbit (AEC) Staining System - AKD080.
- HRP Anti-Polyvalent (DAB) Staining System - UltraTek HRP Anti-Polyvalent (DAB) Staining System - AMF080.

For high sensitivity HRP-Polymer IHC detection kits:

- Anti-Mouse / Anti-Rabbit HRP-DAB Polymer IHC Kit - CRF Anti-Polyvalent HRP Polymer (DAB) Stain Kit - CPH080.
- For AEC Chromogen detection kits see UltraTek HRP AEC Staining Systems.

<u>Catalog Number</u>	<u>Volume</u>
AKB080	70 Slides

UltraTek HRP Anti-Mouse (DAB) Staining System

UltraTek HRP Anti-Mouse (DAB) Staining System, AKA80, 70 slides, Mouse specific HRP/DAB IHC Detection Kit is a complete kit to detect primary antibody with mouse origin by using an HRP-labeled-streptavidin and a biotinylated anti-mouse secondary antibody.

The complete ScyTek kit is supplied with full instructions for use and supplied with ScyTek's proprietary formulations of peroxidase block (ACA) and Super Block (AAA) a protein blocking reagent, a biotinylated secondary antibody UltraTek Anti-Mouse (ABJ), UltraTek Horseradish Peroxidase (ABL) streptavidin-HRP and DAB Substrate for a crisp clear dark brown final stain.

Summary Protocol:

Incubation with an unconjugated primary antibody specific to the target antigen.
 The primary antibody is bound to the biotinylated secondary antibody.
 The secondary antibody is then bound to the HRP-Labeled streptavidin.
 A brown color is created when the HRP is bound to site of the primary antibody by reacting with DAB.

Kit Components:

- Peroxide Block 1 x 8ml ACA008
- Super Block 1 x 8ml AAA008
- UltraTek Anti-Mouse 1 x 8ml ABJ008
- UltraTek HRP 1 x 8 ml ABL008
- DAB Chromogen 1 x 3ml ACB003
- DAB Substrate 7 x 5ml ACC005

Alternate streptavidin-biotin IHC detection kits:

- Anti-Mouse /Anti-Rabbit HRP-DAB IHC kit - UltraTek HRP Anti-Polyvalent (DAB) Staining System - AMF080
- Anti-Rabbit HRP-DAB IHC Kit - UltraTek HRP Anti-Rabbit (DAB) Staining System - AKC080

For high sensitivity HRP-Polymer IHC detection kits:

- Anti-Mouse / Anti-Rabbit HRP-DAB Polymer IHC Kit - CRF Anti-Polyvalent HRP Polymer (DAB) Stain Kit - CPH080
- For AEC Chromogen detection kits see UltraTek HRP AEC Staining Systems

<u>Catalog Number</u>	<u>Volume</u>
AKA080	70 Slides

UltraTek HRP Anti-Mouse Lab Pack

Contains: One container of Super Block.
 One container of Anti-Mouse.
 One container of HRP.

<u>Catalog Number</u>	<u>Volume</u>
UHM125	1250 Slides
UHM500	5000 Slides
UHM999	10000 Slides

UltraTek HRP Anti-Mouse Staining System

UltraTek HRP Anti-Mouse Staining System, AFJ600, 70 slides, Mouse specific IHC Detection Kit is a complete kit to detect primary antibody with mouse origin by using an HRP-labeled-streptavidin and a biotinylated anti-mouse secondary antibody.

The complete ScyTek kit is supplied with full instructions for use and with ScyTek's proprietary formulations of Super Block (AAA) a protein blocking reagent, a biotinylated secondary antibody UltraTek Anti-Mouse (ABJ), UltraTek Horseradish Peroxidase (ABL) streptavidin-HRP.

Species of Origin: Goat
 Antigen Specificity: Anti-Mouse
 Preabsorbed Against: Human
 Enzyme Conjugate: Peroxidase

Summary Protocol:

Incubation with an unconjugated primary antibody specific to the target antigen.
 The primary antibody is bound to the biotinylated secondary antibody.
 The secondary antibody is then bound to the HRP-Labeled streptavidin.
 A brown color is created when the HRP is bound to site of the primary antibody by reacting with DAB.

Kit Components:

Super Block - 4 x 15ml - AAA015
 UltraTek Anti-Mouse - 4 x 15ml - ABJ015
 UltraTek HRP - 4 x 15ml - ABL015

Alternate streptavidin-biotin IHC detection kits:

Anti-Mouse /Anti-Rabbit HRP-DAB IHC kit - UltraTek HRP Anti-Polyvalent (DAB) Staining System - AMF080
 Anti-Rabbit HRP-DAB IHC Kit - UltraTek HRP Anti-Rabbit (DAB) Staining System - AKC080

For high sensitivity HRP-Polymer IHC detection kits:

Anti-Mouse / Anti-Rabbit HRP-DAB Polymer IHC Kit - CRF Anti-Polyvalent HRP Polymer (DAB) Stain Kit - CPH080
 For AEC Chromogen detection kits see UltraTek HRP AEC Staining Systems

<u>Catalog Number</u>	<u>Volume</u>
AFJ600	500 Slides

UltraTek HRP Anti-Polyvalent (AEC) Staining System

UltraTek HRP Anti-Polyvalent (AEC) Staining System, AMG080, 70 slides, is a complete kit to detect primary antibody with mouse and/or rabbit origin by using an HRP-labeled-streptavidin and a biotinylated anti-mouse/rabbit secondary antibody.

The complete ScyTek kit is supplied with full instructions for use and supplied with ScyTek's proprietary formulations of peroxidase block (ACA) and Super Block (AAA) a protein blocking reagent, a biotinylated secondary antibody UltraTek Anti-Polyvalent (ABN), UltraTek Horseradish Peroxidase (ABL) streptavidin-HRP and AEC Chromogen/Substrate for a crisp clear red final stain.

Summary Protocol:

Incubation with an unconjugated primary antibody specific to the target antigen.
 The primary antibody is bound to the biotinylated secondary antibody.
 The secondary antibody is then bound to the HRP-Labeled streptavidin.
 A red color is created when the HRP is bound to site of the primary antibody by reacting with AEC.

Kit Components:

Peroxide Block - 1 x 8ml - ACA008
 Super Block - 1 x 8ml - AAA008
 UltraTek Anti-Polyvalent - 1 x 8ml - ABN008
 UltraTek HRP - 1 x 8 ml - ABL008
 AEC Chromogen - 1 x 3ml - ACD003
 AEC Substrate - 7 x 5ml - ACE005

Alternate streptavidin-biotin IHC detection kits:

Anti-Mouse HRP-AEC IHC kit UltraTek HRP Anti-Mouse (AEC) Staining System - AKB080.
 Anti-Rabbit HRP-AEC IHC Kit - UltraTek HRP Anti-Rabbit (AEC) Staining System - AKD080.
 HRP Anti-Polyvalent (DAB) Staining System - UltraTek HRP Anti-Polyvalent (DAB) Staining System - AMF080.

For high sensitivity HRP-Polymer IHC detection kits:

Anti-Mouse / Anti-Rabbit HRP-DAB Polymer IHC Kit - CRF Anti-Polyvalent HRP Polymer (DAB) Stain Kit - CPH080.
 For AEC Chromogen detection kits see UltraTek HRP AEC Staining Systems.

<u>Catalog Number</u>	<u>Volume</u>
AMG080	70 Slides

UltraTek HRP Anti-Polyvalent (DAB) Staining System

UltraTek HRP Anti-Polyvalent (DAB) Staining System, AMF080, 70 slides, is a complete kit to detect primary antibody with mouse and/or rabbit origin by using an HRP-labeled-streptavidin and a biotinylated anti-mouse/rabbit secondary antibody.

The complete ScyTek kit is supplied with full instructions for use and supplied with ScyTek's proprietary formulations of peroxidase block (ACA) and Super Block (AAA) a protein blocking reagent, a biotinylated secondary antibody UltraTek Anti-Polyvalent (ABN), UltraTek Horseradish Peroxidase (ABL) streptavidin-HRP and DAB Substrate for a crisp clear dark brown final stain.

Summary Protocol:

Incubation with an unconjugated primary antibody specific to the target antigen.

The primary antibody is bound to the biotinylated secondary antibody.

The secondary antibody is then bound to the HRP-Labeled streptavidin.

A brown color is created when the HRP is bound to site of the primary antibody by reacting with DAB.

Kit Components:

Peroxide Block 1 x 8ml ACA008
 Super Block 1 x 8ml AAA008
 UltraTek Anti-Polyvalent 1 x 8ml ABN008
 UltraTek HRP 1 x 8 ml ABL008
 DAB Chromogen 1 x 3ml ACB003
 DAB Substrate 7 x 5ml ACC005

Alternate streptavidin-biotin IHC detection kits:

Anti-Mouse HRP-DAB IHC kit - UltraTek HRP Anti-Mouse (DAB) Staining System - AKA080
 Anti-Rabbit HRP-DAB IHC Kit - UltraTek HRP Anti-Rabbit (DAB) Staining System - AKC080

For high sensitivity HRP-Polymer IHC detection kits:

Anti-Mouse / Anti-Rabbit HRP-DAB Polymer IHC Kit - CRF Anti-Polyvalent HRP Polymer (DAB) Stain Kit - CPH080
 For AEC Chromogen detection kits see UltraTek HRP AEC Staining Systems

<u>Catalog Number</u>	<u>Volume</u>
AMF080	70 Slides

UltraTek HRP Anti-Polyvalent Lab Pack

The UltraTek staining kit provides unmatched sensitivity with incubation times of 10 minutes each for the Link Antibody and Enzyme Label. The bulk kits are ideal for high volume laboratories. Each Pack contains one bottle of Super Block (universal protein block), one bottle of Biotinylated Antibody (Polyvalent), and one bottle of Horseradish Peroxidase Labeled Streptavidin. Each bottle contains 125, 500, or 1000ml of reagent. These Lab-Packs provide an extremely economical alternative for automated staining systems and we encourage you to evaluate the addition of this in your current system.

Contains: One container of Super Block.
 One container of Antipolyvalent.
 One container of HRP.

<u>Catalog Number</u>	<u>Volume</u>
UHP125	1250 Slides
UHP500	5000 Slides
UHP999	10000 Slides

UltraTek HRP Anti-Polyvalent Staining System

Contains: 4 x 15ml Super Block
 4 x 15ml Anti-Polyvalent
 4 x 15ml HRP

<u>Catalog Number</u>	<u>Volume</u>
AFN600	500 Slides

UltraTek HRP Anti-Rabbit (AEC) Staining System

UltraTek HRP Anti-Rabbit (AEC) Staining System, AKD080, 70 slides, Rabbit specific HRP/AEC IHC Detection Kit is a complete kit to detect primary antibody with rabbit origin by using an HRP-labeled-streptavidin and a biotinylated anti-rabbit secondary antibody.

The complete ScyTek kit is supplied with full instructions for use and supplied with ScyTek's proprietary formulations of peroxidase block (ACA) and Super Block (AAA) a protein blocking reagent, a biotinylated secondary antibody UltraTek Anti-Rabbit (ABK), UltraTek Horseradish Peroxidase (ABL) streptavidin-HRP and AEC Chromogen/Substrate for a crisp clear red final stain.

Summary Protocol:

Incubation with an unconjugated primary antibody specific to the target antigen.
 The primary antibody is bound to the biotinylated secondary antibody.
 The secondary antibody is then bound to the HRP-Labeled streptavidin.
 A red color is created when the HRP is bound to site of the primary antibody by reacting with AEC.

Kit Components:

- Peroxide Block - 1 x 8ml - ACA008
- Super Block - 1 x 8ml - AAA008
- UltraTek Anti-Rabbit - 1 x 8ml - ABK008
- UltraTek HRP - 1 x 8 ml - ABL008
- AEC Chromogen - 1 x 3ml - ACD003
- AEC Substrate - 7 x 5ml - ACE005

Alternate streptavidin-biotin IHC detection kits:
 Anti-Mouse /Anti-Rabbit HRP-AEC IHC kit - UltraTek HRP Anti-Polyvalent (AEC) Staining System - AMG080.
 Anti-Mouse HRP-AEC IHC Kit - UltraTek HRP Anti-Mouse (AEC) Staining System - AKB080.
 HRP Anti-Polyvalent (DAB) Staining System - UltraTek HRP Anti-Polyvalent (DAB) Staining System - AMF080.

For high sensitivity HRP-Polymer IHC detection kits:
 Anti-Mouse / Anti-Rabbit HRP-DAB Polymer IHC Kit - CRF Anti-Polyvalent HRP Polymer (DAB) Stain Kit - CPH080.
 For AEC Chromogen detection kits see UltraTek HRP AEC Staining Systems.

<u>Catalog Number</u>	<u>Volume</u>
AKD080	70 Slides

UltraTek HRP Anti-Rabbit (DAB) Staining System

UltraTek HRP Anti-Rabbit(DAB) Staining System, AKC080, 70 slides, Rabbit specific HRP/DAB IHC Detection Kit is a complete kit to detect primary antibody with rabbit origin by using an HRP-labeled-streptavidin and a biotinylated anti-rabbit secondary antibody.

The complete ScyTek kit is supplied with full instructions for use and supplied with ScyTek's proprietary formulations of peroxidase block (ACA) and Super Block (AAA) a protein blocking reagent, a biotinylated secondary antibody UltraTek Anti-Rabbit (ABK), UltraTek Horseradish Peroxidase (ABL) streptavidin-HRP and DAB Substrate for a crisp clear dark brown final stain.

Summary Protocol:

Incubation with an unconjugated primary antibody specific to the target antigen.
 The primary antibody is bound to the biotinylated secondary antibody.
 The secondary antibody is then bound to the HRP-Labeled streptavidin.
 A brown color is created when the HRP is bound to site of the primary antibody by reacting with DAB.

Kit Components:

- Peroxide Block 1 x 8ml ACA008
- Super Block 1 x 8ml AAA008
- UltraTek Anti-Rabbit 1 x 8ml ABK008
- UltraTek HRP 1 x 8 ml ABL008
- DAB Chromogen 1 x 3ml ACB003
- DAB Substrate 7 x 5ml ACC005

Alternate streptavidin-biotin IHC detection kits:
 Anti-Mouse /Anti-Rabbit HRP-DAB IHC kit - UltraTek HRP Anti-Polyvalent (DAB) Staining System - AMF080
 Anti-Mouse HRP-DAB IHC Kit - UltraTek HRP Anti-Mouse (DAB) Staining System - AKA080

For high sensitivity HRP-Polymer IHC detection kits:
 Anti-Mouse / Anti-Rabbit HRP-DAB Polymer IHC Kit - CRF Anti-Polyvalent HRP Polymer (DAB) Stain Kit - CPH080
 For AEC Chromogen detection kits see UltraTek HRP AEC Staining Systems

<u>Catalog Number</u>	<u>Volume</u>
AKC080	70 Slides

UltraTek HRP Anti-Rabbit Lab Pack

The UltraTek staining kit provides unmatched sensitivity with incubation times of 10 minutes each for the Link Antibody and Enzyme Label. The bulk kits are ideal for high volume laboratories. Each Pack contains one bottle of Super Block (universal protein block), one bottle of Biotinylated Anti-Rabbit, and one bottle of Horseradish Peroxidase Labeled Streptavidin. Each bottle contains 125, 500, or 1000ml of reagent. These Lab-Packs provide an extremely economical alternative for automated staining systems and we encourage you to evaluate the addition of this in your current system.

Contains: One container of Super Block.
 One container of Anti-Rabbit.
 One container of HRP.

<u>Catalog Number</u>	<u>Volume</u>
UHR125	1250 Slides
UHR500	5000 Slides
UHR999	10000 Slides

UltraTek HRP Anti-Rabbit Staining System

Contains: 4 x 15ml Super Block
4 x 15ml Anti-Rabbit
4 x 15ml HRP

Catalog Number	Volume
AFK600	500 Slides

UltraTek Alk-Phos

UltraTek Alk-Phos Anti-Mouse (Permanent Red) Staining System

UltraTek Alk-Phos Anti-Mouse (Permanent Red) Staining System, AET080, 70 slides, is a complete kit to detect primary antibody with mouse origin by using an Alk-Phos-labeled-streptavidin and a biotinylated anti-mouse secondary antibody.

Developed in the research laboratories of ScyTek the kit provides unmatched sensitivity with incubation times of 10 minutes each for the Link Antibody and Enzyme Label. The complete ScyTek kit is supplied with full instructions for use with ScyTek's proprietary formulations of Super Block (AAA) a protein blocking reagent, a biotinylated secondary antibody UltraTek Anti-Mouse (ABJ), UltraTek Alk-Phos (ABM) and Permanent Red (PRD-15) for a crisp clear dark final stain which can be coverslipped with solvent based mounting media for long term storage.

Summary Protocol:

Incubation with an unconjugated primary antibody specific to the target antigen.

The primary antibody is bound to the biotinylated secondary antibody.

The secondary antibody is then bound to the Alk-Phos-Labeled streptavidin.

A red color is created when the Alk-Phos is bound to site of the primary antibody by reacting with Permanent Red.

Kit Components:

Super Block 1 x 8 ml AAA008
UltraTek Anti-Mouse 1 x 8 ml ABJ008
UltraTek Alk-Phos 1 x 8 ml ABM008
Permanent Red Concentrate 1 x 2 ml PRC002
Permanent Red Buffer 8 x 5 ml PRB005

Alternate streptavidin-biotin IHC detection kits:

UltraTek Alk-Phos Anti-Rabbit (Permanent Red) Staining System - AME080

UltraTek Alk-Phos Anti-Polyvalent (Permanent Red) Staining System - AMH080

For high sensitivity HRP Polymer IHC detection kits:

Anti-Mouse / Anti-Rabbit HRP-DAB Polymer IHC Kit - CRF Anti-Polyvalent HRP Polymer (DAB) Stain Kit - CPH080

Catalog Number	Volume
AET080	70 Slides

UltraTek Alk-Phos Anti-Mouse Lab Pack

Contains: One container of Super Block.
One container of Anti-Mouse.
One container of Alk-Phos.

Catalog Number	Volume
UAM125	1250 Slides
UAM500	5000 Slides
UAM999	10000 Slides

ScyTek Laboratories, Inc. - Telephone 800-729-8350 - Fax 435-755-0015 - scytek@scytek.com - www.scytek.com

UltraTek Alk-Phos Anti-Mouse Staining System

Contains: 4 x 15ml Super Block
4 x 15ml Anti-Mouse
4 x 15ml Alk-Phos

Catalog Number	Volume
AFL600	500 Slides

UltraTek Alk-Phos Anti-Polyvalent (Permanent Red) Staining System

UltraTek Alk-Phos Anti-Polyvalent (Permanent Red) Staining System, AMH080, 70 slides, is a complete kit to detect primary antibody with mouse and/or rabbit origin by using an Alk-Phos-labeled-streptavidin and a biotinylated anti-mouse/rabbit secondary antibody.

Developed in the research laboratories of ScyTek the kit provides unmatched sensitivity with incubation times of 10 minutes each for the Link Antibody and Enzyme Label. The complete ScyTek kit is supplied with full instructions for use with ScyTek's proprietary formulations of Super Block (AAA) a protein blocking reagent, a biotinylated secondary antibody UltraTek Anti-Polyvalent (ABN), UltraTek Alk-Phos (ABM) and Permanent Red (PRD-15) for a crisp clear dark final stain which can be coverslipped with solvent based mounting media for long term storage.

Summary Protocol:

Incubation with an unconjugated primary antibody specific to the target antigen.

The primary antibody is bound to the biotinylated secondary antibody.

The secondary antibody is then bound to the Alk-Phos-Labeled streptavidin.

A red color is created when the Alk-Phos is bound to site of the primary antibody by reacting with Permanent Red.

Kit Components:

Super Block 1 x 8 ml AAA008
UltraTek Anti-Polyvalent 1 x 8 ml ABN008
UltraTek Alk-Phos 1 x 8 ml ABM008
Permanent Red Concentrate 1 x 2 ml PRC002
Permanent Red Buffer 8 x 5 ml PRB005

Alternate streptavidin-biotin IHC detection kits:

UltraTek Alk-Phos Anti-Rabbit (Permanent Red) Staining System - AME080

UltraTek Alk-Phos Anti-Mouse (Permanent Red) Staining System - AET080

For high sensitivity HRP Polymer IHC detection kits:

Anti-Mouse / Anti-Rabbit HRP-DAB Polymer IHC Kit - CRF Anti-Polyvalent HRP Polymer (DAB) Stain Kit - CPH080

Catalog Number	Volume
AMH080	70 Slides

UltraTek Alk-Phos Anti-Polyvalent Lab Pack

Contains: One container of Super Block.
One container of Anti-Polyvalent.
One container of Alk-Phos.

Catalog Number	Volume
UAP125	1250 Slides
UAP500	5000 Slides
UAP999	10000 Slides

UltraTek Alk-Phos Anti-Polyvalent Staining System

Contains: 4 x 15ml Super Block
 4 x 15ml Anti-Polyvalent
 4 x 15ml Alk-Phos

<u>Catalog Number</u>	<u>Volume</u>
AFP600	500 Slides

UltraTek Alk-Phos Anti-Rabbit (Permanent Red) Staining System

UltraTek Alk-Phos Anti-Rabbit (Permanent Red) Staining System, AME080, 70 slides, is a complete kit to detect primary antibody with rabbit origin by using an Alk-Phos-labeled-streptavidin and a biotinylated anti-rabbit secondary antibody.

Developed in the research laboratories of ScyTek the kit provides unmatched sensitivity with incubation times of 10 minutes each for the Link Antibody and Enzyme Label. The complete ScyTek kit is supplied with full instructions for use with ScyTek's proprietary formulations of Super Block (AAA) a protein blocking reagent, a biotinylated secondary antibody UltraTek Anti-Rabbit (ABK), UltraTek Alk-Phos (ABM) and Permanent Red (PRD-15) for a crisp clear dark final stain which can be cover slipped with solvent based mounting media for long term storage.

Summary Protocol:

Incubation with an unconjugated primary antibody specific to the target antigen.

The primary antibody is bound to the biotinylated secondary antibody.

The secondary antibody is then bound to the Alk-Phos-Labeled streptavidin.

A red color is created when the Alk-Phos is bound to site of the primary antibody by reacting with Permanent Red.

Kit Components:

Super Block 1 x 8 ml AAA008
 UltraTek Anti-Rabbit 1 x 8 ml ABK008
 UltraTek Alk-Phos 1 x 8 ml ABM008
 Permanent Red Concentrate 1 x 2 ml PRC002
 Permanent Red Buffer 8 x 5 ml PRB005

Alternate streptavidin-biotin IHC detection kits:

UltraTek Alk-Phos Anti-Mouse (Permanent Red) Staining System - AET080

UltraTek Alk-Phos Anti-Polyvalent (Permanent Red) Staining System - AMH080

For high sensitivity HRP Polymer IHC detection kits:

Anti-Mouse / Anti-Rabbit HRP-DAB Polymer IHC Kit - CRF Anti-Polyvalent HRP Polymer (DAB) Stain Kit - CPH080

For AEC Chromogen detection kits see UltraTek HRP AEC Staining Systems

<u>Catalog Number</u>	<u>Volume</u>
AME080	70 Slides

UltraTek Alk-Phos Anti-Rabbit Lab Pack

Contains: One container of Super Block.
 One container of Anti-Rabbit.
 One container of Alk-Phos.

<u>Catalog Number</u>	<u>Volume</u>
UAR125	1250 Slides
UAR500	5000 Slides
UAR999	10000 Slides

ScyTek Laboratories, Inc. - Telephone 800-729-8350 - Fax 435-755-0015 - scytek@scytek.com - www.scytek.com

UltraTek Alk-Phos Anti-Rabbit Staining System

UltraTek Alk-Phos Anti-Rabbit Staining System, AFM600, 500 slides, is a complete kit to detect primary antibody with rabbit origin by using an Alk-Phos-labeled-streptavidin and a biotinylated anti-rabbit secondary antibody.

Developed in the research laboratories of ScyTek the kit provides unmatched sensitivity with incubation times of 10 minutes each for the Link Antibody and Enzyme Label. The complete ScyTek kit is supplied with full instructions for use with ScyTek's proprietary formulations of Super Block (AAA) a protein blocking reagent, a biotinylated secondary antibody UltraTek Anti-Rabbit (ABK) and UltraTek Alk-Phos (ABM) apply chromogen intended for use with Alkaline Phosphatase for a crisp clear dark final stain.

Summary Protocol:

Incubation with an unconjugated primary antibody specific to the target antigen.

The primary antibody is bound to the biotinylated secondary antibody.

The secondary antibody is then bound to the Alk-Phos-Labeled streptavidin.

Apply chromogen intended for use with Alkaline Phosphatase - not included.

Kit Components:

Super Block 4 x 15 ml AAA015
 UltraTek Anti-Rabbit 4 x 15 ml ABK015
 UltraTek Alk-Phos 4 x 15 ml ABM015

Alternate streptavidin-biotin IHC detection kits:

UltraTek Alk-Phos Anti-Mouse Staining System - AME080
 UltraTek Alk-Phos Anti-Polyvalent Staining System - AFP600

For high sensitivity HRP Polymer IHC detection kits:

For Polymer DAB Chromogen detection kits see PolyTek HRP DAB Staining Systems

For Polymer AEC Chromogen detection kits see PolyTek HRP AEC Staining Systems

<u>Catalog Number</u>	<u>Volume</u>
AFM600	500 Slides

UltraTek Individual Reagents

Super Block

Super Block is a unique serum-free blocking of non-specific antibody binding in IHC, ELISA and western blot. Super Block eliminates the need for matching species with the link antibody and is often, more effective at reducing non-specific background staining than normal serum. Ready-to-use no mixing required Super Block reduces the handling of animal serums in the laboratory. A streamlined formulation without normal serum in the product eliminates the need to match species with the secondary antibody.

Summary Protocol:

IHC: Incubate on tissue section prior to application of the primary antibody.

ELISA: Add Super Block to microtiter well and incubate prior to addition of sample. Rinse and continue procedure.

Western Blot: An effective blocker for this technique at room temperature.

<u>Catalog Number</u>	<u>Volume</u>
AAA125	125 ml
AAA500	500 ml
AAA999	1000 ml

UltraTek Alkaline Phosphatase

The UltraTek line is our leading edge system, designed to provide optimal staining with incubation times of 10 minutes each for the link antibody and enzyme label. UltraTek Alkaline Phosphatase is specially formulated and optimized to be used in a labeled streptavidin-biotin immunoenzymatic antigen detection system. This technique requires the sequential incubation of the specimen with an unconjugated primary antibody specific to the target antigen, a biotinylated secondary antibody which reacts with the primary antibody, enzyme-labeled streptavidin, and substrate-chromogen. For most procedures, commercially available primary antibodies can be diluted up to 50% more than with other systems.

Summary Protocol:

Incubate on tissue section after application of the primary antibody.

<u>Catalog Number</u>	<u>Volume</u>
ABM008	8 ml
ABM015	15 ml
ABM125	125 ml
ABM500	500 ml
ABM999	1000 ml

UltraTek Anti-Goat

The UltraTek line is our leading edge system, designed to provide optimal staining with incubation times of 10 minutes each for the link antibody and enzyme label. For most procedures, commercially available primary antibodies can be diluted up to 50% further than with other systems.

<u>Catalog Number</u>	<u>Volume</u>
AGL008	8 ml
AGL015	15 ml
AGL125	125 ml
AGL250	250 ml

UltraTek Anti-Mouse

The UltraTek line is our leading edge system, designed to provide optimal staining with incubation times of 10 minutes each for the link antibody and enzyme label. UltraTek Anti-Mouse is specially formulated and optimized to be used in a labeled streptavidin-biotin immunoenzymatic antigen detection system. This technique requires the sequential incubation of the specimen with an unconjugated primary antibody specific to the target antigen, a biotinylated secondary antibody which reacts with the primary antibody, enzyme-labeled streptavidin, and substrate-chromogen. For most procedures, commercially available primary antibodies can be diluted up to 50% more than with other systems.

Summary Protocol:

Incubate on tissue section after application of the primary antibody.

<u>Catalog Number</u>	<u>Volume</u>
ABJ008	8 ml
ABJ015	15 ml
ABJ125	125 ml
ABJ500	500 ml
ABJ999	1000 ml

UltraTek Anti-Polyvalent

The UltraTek line is our leading edge system, designed to provide optimal staining with incubation times of 10 minutes each for the link antibody and enzyme label. UltraTek Anti-Polyvalent is specially formulated and optimized to be used in a labeled streptavidin-biotin immunoenzymatic antigen detection system. This technique requires the sequential incubation of the specimen with an unconjugated primary antibody specific to the target antigen, a biotinylated secondary antibody which reacts with the primary antibody, enzyme-labeled streptavidin, and substrate-chromogen. For most procedures, commercially available primary antibodies can be diluted up to 50% more than with other systems.

Summary Protocol:

Incubate on tissue section after application of the primary antibody.

<u>Catalog Number</u>	<u>Volume</u>
ABN008	8 ml
ABN015	15 ml
ABN125	125 ml
ABN500	500 ml
ABN999	1000 ml

UltraTek Anti-Rabbit

The UltraTek line is our leading edge system, designed to provide optimal staining with incubation times of 10 minutes each for the link antibody and enzyme label. UltraTek Anti-Rabbit is specially formulated and optimized to be used in a labeled streptavidin-biotin immunoenzymatic antigen detection system. This technique requires the sequential incubation of the specimen with an unconjugated primary antibody specific to the target antigen, a biotinylated secondary antibody which reacts with the primary antibody, enzyme-labeled streptavidin, and substrate-chromogen. For most procedures, commercially available primary antibodies can be diluted up to 50% more than with other systems.

Summary Protocol:

Incubate on tissue section after application of the primary antibody.

<u>Catalog Number</u>	<u>Volume</u>
ABK008	8 ml
ABK015	15 ml
ABK125	125 ml
ABK500	500 ml
ABK999	1000 ml

UltraTek Horseradish Peroxidase

The UltraTek line is our leading edge system, designed to provide optimal staining with incubation times of 10 minutes each for the link antibody and enzyme label. UltraTek Horseradish Peroxidase is specially formulated and optimized to be used in a labeled streptavidin-biotin immunoenzymatic antigen detection system. This technique requires the sequential incubation of the specimen with an unconjugated primary antibody specific to the target antigen, a biotinylated secondary antibody which reacts with the primary antibody, enzyme-labeled streptavidin, and substrate-chromogen. For most procedures, commercially available primary antibodies can be diluted up to 50% more than with other systems.

Summary Protocol:

Incubate on tissue section after application of the primary antibody.

<u>Catalog Number</u>	<u>Volume</u>
ABL008	8 ml
ABL015	15 ml
ABL125	125 ml
ABL500	500 ml
ABL999	1000 ml

SensiTek**SensiTek Kits****SensiTek HRP****SensiTek HRP Anti-Mouse (AEC) Staining System**

Contains: 1 x 8ml Peroxide Block
1 x 8ml Super Block
1 x 8ml Anti-Mouse
1 x 8ml HRP
1 x 3ml AEC Chromogen
7 x 5ml AEC Substrate

<u>Catalog Number</u>	<u>Volume</u>
AEB080	70 Slides

SensiTek HRP Anti-Mouse (DAB) Staining System

This SensiTek Anti-Mouse staining kit provides excellent sensitivity with incubation times of 20 minutes each for the Link Antibody and Enzyme Label. Each Pack contains all you need for your IHC stain; Super Block (universal protein block), Peroxide Block, Biotinylated Antibody (Anti-Mouse), and Horseradish Peroxidase Labeled Streptavidin, DAB chromogen and substrate. This system provides an extremely economical alternative for automated staining systems and we encourage you to evaluate the addition of this in your current system.

Contains: 1 x 8ml Peroxide Block
1 x 8ml Super Block
1 x 8ml Anti-Mouse
1 x 8ml HRP
1 x 3ml DAB Chromogen
7 x 5ml DAB Substrate

<u>Catalog Number</u>	<u>Volume</u>
AEA080	70 Slides

SensiTek HRP Anti-Mouse Lab Pack

Contains: One container of Super Block
One container of Anti-Mouse
One container of HRP

<u>Catalog Number</u>	<u>Volume</u>
SHM125	1250 Slides
SHM500	5000 Slides
SHM999	10000 Slides

SensiTek HRP Anti-Mouse Staining System

Contains: 4 x 15ml Super Block
4 x 15ml Anti-Mouse
4 x 15ml Alk-Phos

<u>Catalog Number</u>	<u>Volume</u>
AFA600	500 Slides

SensiTek HRP Anti-Polyvalent (AEC) Staining System

Contains: 1 x 8ml Peroxide Block
 1 x 8ml Super Block
 1 x 8ml Anti-Polyvalent
 1 x 8ml HRP
 1 x 3ml AEC Chromogen
 7 x 5ml AEC Substrate

<u>Catalog Number</u>	<u>Volume</u>
AEN080	70 Slides

SensiTek HRP Anti-Polyvalent (DAB) Staining System

Contains: 1 x 8ml Peroxide Block
 1 x 8ml Super Block
 1 x 8ml Anti-Polyvalent
 1 x 8ml HRP
 1 x 3ml DAB Chromogen
 7 x 5ml DAB Substrate

<u>Catalog Number</u>	<u>Volume</u>
AEM080	70 Slides

SensiTek HRP Anti-Polyvalent Lab Pack

Contains: One container of Super Block
 One container of Anti-Polyvalent
 One container of HRP

<u>Catalog Number</u>	<u>Volume</u>
SHP125	1250 Slides
SHP500	5000 Slides
SHP999	10000 Slides

SensiTek HRP Anti-Polyvalent Staining System

The SensiTek staining kit provides an unmatched combination of economy and sensitivity with incubation times of 20 minutes each for the Link Antibody and Enzyme Label.

Contains: 4 x 15ml Super Block
 4 x 15ml Anti-Polyvalent
 4 x 15ml HRP

<u>Catalog Number</u>	<u>Volume</u>
AFG600	500 Slides

SensiTek HRP Anti-Rabbit (AEC) Staining System

Contains: 1 x 8ml Peroxide Block
 1 x 8ml Super Block
 1 x 8ml Anti-Rabbit
 1 x 8ml HRP
 1 x 3ml AEC Chromogen
 7 x 5ml AEC Substrate

<u>Catalog Number</u>	<u>Volume</u>
AEJ080	70 Slides

SensiTek HRP Anti-Rabbit (DAB) Staining System

Contains: 1 x 8ml Peroxide Block
 1 x 8ml Super Block
 1 x 8ml Anti-Rabbit
 1 x 8ml HRP
 1 x 3ml DAB Chromogen
 7 x 5ml DAB Substrate

<u>Catalog Number</u>	<u>Volume</u>
AEI080	70 Slides

SensiTek HRP Anti-Rabbit Lab Pack

Contains: One container of Super Block
 One container of Anti-Rabbit
 One container of HRP

<u>Catalog Number</u>	<u>Volume</u>
SHR125	1250 Slides
SHR500	5000 Slides
SHR999	10000 Slides

SensiTek HRP Anti-Rabbit Staining System

Contains: 4 x 15ml Super Block
 4 x 15ml Anti-Rabbit
 4 x 15ml HRP

<u>Catalog Number</u>	<u>Volume</u>
AFE600	500 Slides

SensiTek Alk-Phos

SensiTek Alk-Phos Anti-Mouse Lab Pack

Contains: One container of Super Block
 One container of Anti-Mouse
 One container of Alk-Phos.

<u>Catalog Number</u>	<u>Volume</u>
SAM125	1250 Slides
SAM500	5000 Slides
SAM999	10000 Slides

SensiTek Alk-Phos Anti-Mouse Staining System

Contains: 4 x 15ml Super Block
 4 x 15ml Anti-Mouse
 4 x 15ml Alk-Phos

<u>Catalog Number</u>	<u>Volume</u>
AFB600	500 Slides

SensiTek Alk-Phos Anti-Polyvalent (Permanent Red) Staining System

The SensiTek staining kit provides unmatched sensitivity with incubation times of 20 minutes each for the Link Antibody and Enzyme Label. This kit includes our Permanent Red chromogen, which can be coverslipped with solvent based mounting media for long term storage.

Contains: 1 x 8ml Super Block
 1 x 8ml Anti-Polyvalent
 1 x 8ml Alk-Phos
 1 x 2ml Permanent Red Concentrate
 8 x 5ml Permanent Red Buffer

<u>Catalog Number</u>	<u>Volume</u>
AES080	70 Slides

SensiTek Alk-Phos Anti-Polyvalent Lab Pack

Contains: One container of Super Block
One container of Anti-Polyvalent
One container of Alk-Phos.

<u>Catalog Number</u>	<u>Volume</u>
SAP125	1250 Slides
SAP500	5000 Slides
SAP999	10000 Slides

SensiTek Alk-Phos Anti-Polyvalent Staining System

Contains: 4 x 15ml Super Block
4 x 15ml Anti-Polyvalent
4 x 15ml Alk-Phos

<u>Catalog Number</u>	<u>Volume</u>
AFH600	500 Slides

SensiTek Alk-Phos Anti-Rabbit Lab Pack

Contains: One container of Super Block
One container of Anti-Rabbit
One container of Alk-Phos.

<u>Catalog Number</u>	<u>Volume</u>
SAR125	1250 Slides
SAR500	5000 Slides
SAR999	10000 Slides

SensiTek Alk-Phos Anti-Rabbit Staining System

Contains: 4 x 15ml Super Block
4 x 15ml Anti-Rabbit
4 x 15ml Alk-Phos

<u>Catalog Number</u>	<u>Volume</u>
AFF600	500 Slides

SensiTek Individual Reagents**SensiTek Alkaline Phosphatase**

The SensiTek reagents are ideal for laboratories that require both performance and economy. The link antibody and enzyme label each require a 20-minute incubation period. The reagents produce clear, crisp staining with almost any commercially available primary antibody.

<u>Catalog Number</u>	<u>Volume</u>
ABH008	8 ml
ABH015	15 ml
ABH125	125 ml
ABH500	500 ml
ABH999	1000 ml

SensiTek Anti-Mouse

The SensiTek reagents are ideal for laboratories that require both performance and economy. The link antibody and enzyme label each require a 20-minute incubation period. The reagents produce clear, crisp staining with almost any commercially available primary antibody.

<u>Catalog Number</u>	<u>Volume</u>
ABC008	8 ml
ABC015	15 ml
ABC125	125 ml
ABC500	500 ml
ABC999	1000 ml

SensiTek Anti-Polyvalent

The SensiTek reagents are ideal for laboratories that require both performance and economy. The link antibody and enzyme label each require a 20-minute incubation period. The reagents produce clear, crisp staining with almost any commercially available primary antibody.

<u>Catalog Number</u>	<u>Volume</u>
ABF008	8 ml
ABF015	15 ml
ABF125	125 ml
ABF500	500 ml
ABF999	1000 ml

SensiTek Anti-Rabbit

The SensiTek reagents are ideal for laboratories that require both performance and economy. The link antibody and enzyme label each require a 20-minute incubation period. The reagents produce clear, crisp staining with almost any commercially available primary antibody.

<u>Catalog Number</u>	<u>Volume</u>
ABE008	8 ml
ABE015	15 ml
ABE125	125 ml
ABE500	500 ml
ABE999	1000 ml

SensiTek Horseradish Peroxidase

The SensiTek reagents are ideal for laboratories that require both performance and economy. The link antibody and enzyme label each require a 20-minute incubation period. The reagents produce clear, crisp staining with almost any commercially available primary antibody.

<u>Catalog Number</u>	<u>Volume</u>
ABG008	8 ml
ABG015	15 ml
ABG125	125 ml
ABG500	500 ml
ABG999	1000 ml

Super Block

Super Block is a unique serum-free blocking of non-specific antibody binding in IHC, ELISA and western blot. Super Block eliminates the need for matching species with the link antibody and is often, more effective at reducing non-specific background staining than normal serum. Ready-to-use no mixing required Super Block reduces the handling of animal serums in the laboratory. A streamlined formulation without normal serum in the product eliminates the need to match species with the secondary antibody.

Summary Protocol:

IHC: Incubate on tissue section prior to application of the primary antibody.

ELISA: Add Super Block to microtiter well and incubate prior to addition of sample. Rinse and continue procedure.

Western Blot: An effective blocker for this technique at room temperature.

<u>Catalog Number</u>	<u>Volume</u>
AAA125	125 ml
AAA500	500 ml
AAA999	1000 ml

EconoTek

HRP

EconoTek HRP Anti-Polyvalent (DAB)

The EconoTek reagents are ideal for laboratories that require both performance and maximum economy. The link antibody and enzyme label each require a 30-minute incubation period. The reagents produce clear, crisp staining with almost any commercially available primary antibody. Our Anti-Polyvalent systems may be used with primary antibodies derived from Mouse, Rat, Rabbit and Guinea Pig.

Contains:	1 x 8ml	Peroxide Block
	1 x 8ml	Super Block
	1 x 8ml	Anti-Polyvalent
	1 x 8ml	HRP
	1 x 3ml	DAB Chromogen
	7 x 5ml	DAB Substrate

<u>Catalog Number</u>	<u>Volume</u>
AEX080	70 Slides

EconoTek HRP Anti-Polyvalent Lab Pack

The EconoTek reagents are ideal for laboratories that require both performance and maximum economy. The link antibody and enzyme label each require a 30-minute incubation period. The reagents produce clear, crisp staining with almost any commercially available primary antibody. Our Anti-Polyvalent systems may be used with primary antibodies derived from Mouse, Rat, Rabbit and Guinea Pig.

The bulk kits are ideal for high volume laboratories. Each Pack contains one bottle of Super Block (universal protein block), one bottle of Biotinylated Antibody (Polyvalent), and one bottle of Enzyme Labeled Streptavidin. Each bottle contains 125, 500, or 1000ml of reagent. These Lab-Packs provide an extremely economical alternative for automated staining systems.

<u>Catalog Number</u>	<u>Volume</u>
EHP125	1250 Slides
EHP500	5000 Slides
EHP999	10000 Slides

Alk-Phos

EconoTek Alk-Phos Anti-Polyvalent Lab Pack

The EconoTek reagents are ideal for laboratories that require both performance and maximum economy. The link antibody and enzyme label each require a 30-minute incubation period. The reagents produce clear, crisp staining with almost any commercially available primary antibody. Our Anti-Polyvalent systems may be used with primary antibodies derived from Mouse, Rat, Rabbit and Guinea Pig.

The bulk kits are ideal for high volume laboratories. Each Pack contains one bottle of Super Block (universal protein block), one bottle of Biotinylated Antibody (Polyvalent), and one bottle of Enzyme Labeled Streptavidin. Each bottle contains 125, 500, or 1000ml of reagent. These Lab-Packs provide an extremely economical alternative for automated staining systems.

<u>Catalog Number</u>	<u>Volume</u>
EAP125	1250 Slides
EAP500	5000 Slides
EAP999	10000 Slides

Polymer IHC

Polymer Kits

CRF Anti-Polyvalent HRP Polymer (DAB) Lab Pack

The CRF Anti-Polyvalent HRP Polymer (DAB) Lab Pack based on proprietary CRF Technology has been developed to provide the cleanest, most consistent staining available. Developed in the research laboratories of ScyTek, the system utilizes a polymerized peroxidase label that eliminates biotin and its' associated background issues from the equation. In addition, this product reduces the steps required for immunohistochemical staining by combining two steps from the traditional Biotin-Streptavidin system. The CRF technology based Anti-Polyvalent system is effective with antibodies of mouse, rat, rabbit and guinea pig. Each Lab Pack includes either 125ml, 500ml, or 1000ml of each component.

Contains: One bottle of Super Block.
 One bottle of CRF Anti-Polyvalent HRP Polymer.
 One bottle of DAB Substrate (High Contrast)
 One vial of DAB Chromogen Concentrate.

<u>Catalog Number</u>	<u>Volume</u>
CPP125	1250 Slides
CPP500	5000 Slides
CPP999	10000 Slides

Polymer HRP

CRF Anti-Polyvalent HRP Polymer (DAB) Stain Kit

The CRF Anti-Polyvalent HRP Polymer (DAB) Stain Kit based on proprietary CRF Technology has been developed to provide the cleanest, most consistent staining available. Developed in the research laboratories of ScyTek, the system utilizes a polymerized peroxidase label that eliminates biotin and its' associated background issues from the equation. In addition, this product reduces the steps required for immunohistochemical staining by combining two steps from the traditional Biotin-Streptavidin system. The CRF technology based Anti-Polyvalent system is effective with antibodies of mouse, rat, rabbit and guinea pig.

Summary Protocol:

Incubation with an unconjugated primary antibody specific to the target antigen.

The primary antibody is bound to the biotinylated secondary antibody.

The secondary antibody is then bound to the HRP-Labeled streptavidin.

A brown color is created when the HRP is bound to site of the primary antibody by reacting with DAB.

Kit Components:

Peroxide Block- 1 x 8ml - ACA008
 Super Block - 1 x 8ml - AAA008
 CRF Anti-Polyvalent HRP - 1 x 8ml - ABZ008
 DAB Chromogen - 1 x 3ml - ACB003
 DAB Substrate - 7 x 5ml - ACC005

Items recommended but not included:

Citrate Plus - 1 x 500ml - CPL500
 Hematoxylin for Automation - 1 x 500ml - HAQ500
 Bluing Reagent - 1 x 500ml - BRT500

Alternate CRF Polymer IHC detection kits:

Anti-Mouse HRP-DAB IHC kit - PolyTek Anti-Mouse (DAB)
 Polymerized HRP Imaging System - PIR080
 Anti-Rabbit HRP-DAB IHC kit - PolyTek HRP Anti-Rabbit
 Polymerized Imaging System - PIP080

<u>Catalog Number</u>	<u>Volume</u>
CPH080	80 Slides

PolyTek Anti-Mouse (DAB) Polymerized HRP Imaging System

PolyTek HRP Anti-Mouse (DAB) Polymerized Imaging System has been developed to provide the cleanest, most consistent staining available. Developed in the research laboratories of ScyTek, the system is based on a polymerized peroxidase label that eliminates biotin and its' associated background issues from the equation. In addition, this product reduces the steps required for immunohistochemical staining by combining two steps from the traditional Biotin-Streptavidin system. PolyTek HRP Anti-Mouse Polymerized Imaging System is effective with antibodies of mouse or rat origin.

Summary Protocol:

Incubation with an unconjugated primary antibody specific to the target antigen.

The primary antibody is bound to the biotinylated secondary antibody.

The secondary antibody is then bound to the HRP-Labeled streptavidin.

A brown color is created when the HRP is bound to site of the primary antibody by reacting with DAB.

Kit Components:

Peroxide Block for Image Analysis - 1 x 8ml - ADA008
 Super Block - 1 x 8ml - AAA008
 CRF Anti-Mouse HRP - 1 x 8ml - PAM008
 DAB Chromogen - 1 x 3ml - ACB003
 DAB Substrate (High Contrast) - 8 x 5ml - ACU005

Items recommended but not included:

Citrate Plus - 1 x 500ml - CPL500
 Hematoxylin for Automation - 1 x 500ml - HAQ500
 Bluing Reagent - 1 x 500ml - BRT500

Alternate CRF Polymer IHC detection kits:

Anti-Mouse and Anti-Rabbit HRP-DAB IHC kit - CRF Anti-Polyvalent HRP Polymer (DAB) Stain Kit - CPH080
 Anti-Rabbit HRP-DAB IHC kit - PolyTek HRP Anti-Rabbit Polymerized Imaging System - PIP080

<u>Catalog Number</u>	<u>Volume</u>
PIR080	70 Slides

PolyTek Anti-Mouse HRP Polymer (DAB) Large Volume Kit

PolyTek Anti-Mouse HRP Polymer (DAB) Large Volume Kit has been developed to provide the cleanest, most consistent staining available. Developed in the research laboratories of ScyTek, the system is based on a polymerized peroxidase label that eliminates biotin and its' associated background issues from the equation. In addition, this product reduces the steps required for immunohistochemical staining by combining two steps from the traditional Biotin-Streptavidin system. PolyTek Anti-Mouse HRP Polymer Large Volume Kit is effective with antibodies of mouse or rat origin.

<u>Catalog Number</u>	<u>Volume</u>
PIR500	500 ml
PIR999	1000 ml

PolyTek HRP Anti-Rabbit Polymerized Imaging System

PolyTek HRP Anti-Rabbit (DAB) Polymerized Imaging System has been developed to provide the cleanest, most consistent staining available. Developed in the research laboratories of ScyTek, the system is based on a polymerized peroxidase label that eliminates biotin and its associated background issues from the equation. In addition, this product reduces the steps required for immunohistochemical staining by combining two steps from the traditional Biotin-Streptavidin system. PolyTek HRP Anti-Rabbit Polymerized Imaging System is effective with antibodies of rabbit or guinea pig origin.

Summary Protocol:

Incubation with an unconjugated primary antibody specific to the target antigen.

The primary antibody is bound to the biotinylated secondary antibody.

The secondary antibody is then bound to the HRP-Labeled streptavidin.

A brown color is created when the HRP is bound to site of the primary antibody by reacting with DAB.

Kit Components:

Peroxide Block for Image Analysis - 1 x 8ml - ADA008
 Super Block - 1 x 8ml - AAA008
 CRF Anti-Rabbit HRP1 x 8mlIPAR008
 DAB Chromogen - 1 x 3ml - ACB003
 DAB Substrate (High Contrast) - 8 x 5ml - ACU005

Items recommended but not included:

Citrate Plus - 1 x 500ml - CPL500
 Hematoxylin for Automation - 1 x 500ml - HAQ500
 Bluing Reagent - 1 x 500ml - BRT500

Alternate CRF Polymer IHC detection kits:

Anti-Mouse and Anti-Rabbit HRP-DAB IHC kit - CRF Anti-Polyvalent HRP Polymer (DAB) Stain Kit - CPH080
 Anti-Mouse HRP-DAB IHC kit - PolyTek Anti-Mouse (DAB) Polymerized HRP Imaging System - PIR080

<u>Catalog Number</u>	<u>Volume</u>
PIP080	1 kit(s)

Polymer Individual Reagents

CRF Anti-Polyvalent HRP Polymer

CRF Anti-Polyvalent HRP Polymer has been developed to provide the cleanest, most consistent staining available. Developed in the research laboratories of ScyTek, the system is based on a polymerized peroxidase label that eliminates biotin and its' associated background issues from the equation. In addition, this product reduces the steps required for immunohistochemical staining by combining two steps from the traditional Biotin-Streptavidin system. CRF Anti-Polyvalent HRP Polymer is effective with antibodies of mouse, rat, rabbit and guinea pig.

Summary Protocol:

Incubate on tissue section after application of the primary antibody.

Recommended Components not Included:

HIER Solution - 1 x 500ml
 Peroxide Block for Image - 1 x 500ml - ADA500
 Super Block - 1 x 500ml - AAA500
 DAB Chromogen/Substrate Kit - 1 x 500ml - ACT500
 Hematoxylin - 1 x 500ml - HMM500
 Bluing Reagent - 1 x 500ml - BRT500

<u>Catalog Number</u>	<u>Volume</u>
ABZ008	8 ml
ABZ015	15 ml
ABZ125	125 ml
ABZ500	500 ml
ABZ999	1000 ml

PolyTek Anti-Mouse Polymerized Alk-Phos

PolyTek Anti-Mouse Polymerized Alk-Phos has been developed to provide the cleanest, most consistent staining available. Developed in the research laboratories of ScyTek, the system is based on a polymerized alkaline phosphatase label that eliminates biotin and its' associated background issues from the equation. In addition, this product reduces the steps required for immunohistochemical staining by combining two steps from the traditional Biotin-Streptavidin system. PolyTek Anti-Mouse Polymerized Alk-Phos is effective with antibodies of mouse or rat origin.

Species of Origin: Goat

Antigen Specificity: Anti-Mouse

Preabsorbed Against: Human

Enzyme Conjugate: Alkaline Phosphatase

Items recommended but not included:

Peroxide Block - 1 x 500ml - ACA500
 Citrate Plus - 1 x 500ml - CPL500
 Super Block - 1 x 500ml - AAA500
 Permanent Red Bulk Pack - 1 x 500ml - PRD500
 Hematoxylin - 1 x 500ml - HMM500
 Bluing Reagent - 1 x 500ml - BRT500

<u>Catalog Number</u>	<u>Volume</u>
PAT008	8 ml
PAT015	15 ml
PAT125	125 ml
PAT500	500 ml
PAT999	1000 ml

PolyTek, Anti-Mouse Polymerized HRP

PolyTek, Anti-Mouse Polymerized HRP has been developed to provide the cleanest, most consistent staining available. The system is based on a polymerized peroxidase label that eliminates biotin from the equation, thereby eliminating a major cause of background staining. In addition, this product reduces the steps required for immunohistochemical staining by combining two steps from the traditional Biotin-Streptavidin system.

Summary Protocol:

Incubate on tissue section after application of the primary antibody.

Recommended Components not Included:

HIER Solution - 1 x 500ml
 Citrate Plus - 1 x 500ml - CPL500
 Peroxide Block for Image - 1 x 500ml - ADA500
 Super Block - 1 x 500ml - AAA500
 DAB Chromogen/Substrate Kit - 1 x 500ml - ACT500
 Hematoxylin - 1 x 500ml - HMM500
 Bluing Reagent - 1 x 500ml - BRT500

<u>Catalog Number</u>	<u>Volume</u>
PAM008	8 ml
PAM015	15 ml
PAM125	125 ml
PAM500	500 ml
PAM999	1000 ml

PolyTek, Anti-Rabbit Polymerized Alk-Phos

PolyTek Anti-Rabbit Polymerized Alk-Phos developed to provide a clean, consistent stain. Developed in the research laboratories of ScyTek, the system is based on a polymerized alkaline phosphatase label that eliminates biotin and its' associated background issues. In addition, this product reduces the steps required for immunohistochemical staining by combining two steps from the traditional Biotin-Streptavidin system. PolyTek Anti-Rabbit Polymerized Alk-Phos is effective with antibodies of rabbit or guinea pig origin.

Species of Origin: Goat
 Antigen Specificity: Anti-Rabbit
 Preabsorbed Against: Human
 Enzyme Conjugate: Alkaline Phosphatase

Items recommended but not included:

HIER Solution - 1 x 500ml
 Super Block - 1 x 500ml - AAA500
 Permanent Red Bulk Pack - 1 x 500ml - PRD500
 Hematoxylin - 1 x 500ml - HMM500
 Bluing Reagent - 1 x 500ml - BRT500

<u>Catalog Number</u>	<u>Volume</u>
PAL008	8 ml
PAL015	15 ml
PAL125	125 ml
PAL500	500 ml
PAL999	1000 ml

PolyTek, Anti-Rabbit Polymerized HRP

PolyTek, Anti-Rabbit Polymerized HRP has been developed to provide the cleanest, most consistent staining available. The system is based on a polymerized peroxidase label that eliminates biotin from the equation, thereby eliminating a major cause of background staining. In addition, this product reduces the steps required for immunohistochemical staining by combining two steps from the traditional Biotin-Streptavidin system.

Summary Protocol:
 Incubate on tissue section after application of the primary antibody.

Recommended Components not Included:

HIER Solution - 1 x 500ml
 Peroxide Block for Image - 1 x 500ml - ADA500
 Super Block - 1 x 500ml- AAA500
 DAB Chromogen/Substrate Kit - 1 x 500ml - ACT500
 Hematoxylin - 1 x 500ml - HMM500
 Bluing Reagent - 1 x 500ml - BRT500

<u>Catalog Number</u>	<u>Volume</u>
PAR008	8 ml
PAR015	15 ml
PAR125	125 ml
PAR500	500 ml
PAR999	1000 ml

Super Block

Super Block is a unique serum-free blocking of non-specific antibody binding in IHC, ELISA and western blot. Super Block eliminates the need for matching species with the link antibody and is often, more effective at reducing non-specific background staining than normal serum. Ready-to-use no mixing required Super Block reduces the handling of animal serums in the laboratory. A streamlined formulation without normal serum in the product eliminates the need to match species with the secondary antibody.

Summary Protocol:

IHC: Incubate on tissue section prior to application of the primary antibody.

ELISA: Add Super Block to microtiter well and incubate prior to addition of sample. Rinse and continue procedure.

Western Blot: An effective blocker for this technique at room temperature.

<u>Catalog Number</u>	<u>Volume</u>
AAA125	125 ml
AAA500	500 ml
AAA999	1000 ml

HRP

HRP Kits

Universal, HRP Polymer Detection System

Contains: Peroxide Block for Image Analysis
 Super Block
 CRF Anti-Polyvalent, HRP Polymer
 DAB Chromogen Concentrate
 DAB Substrate Buffer, High Contrast
 Hematoxylin
 Bluing Reagent

<u>Catalog Number</u>	<u>Volume</u>
UPK008	80 Slides
UPK100	1000 Slides
UPK500	5000 Slides
UPK999	10000 Slides

Species Specific Reagents

Mouse to Mouse

Mouse to Mouse Alk-Phos (Permanent Red) Staining System

Mouse to Mouse Alk-Phos (Permanent Red) Staining System is specially designed for using mouse primary antibodies on mouse tissues with minimum cross-reactivity to endogenous mouse IgG. ScyTek's Mouse to Mouse Alk-Phos (Permanent Red) Staining System provides unmatched sensitivity with incubation times of 10 minutes each for the Link Antibody and Enzyme Label. This kit includes our Permanent Red chromogen, which can be cover slipped with solvent based mounting media for long term storage.

Summary Protocol:

Incubation with an unconjugated primary antibody specific to the target antigen.

Apply Super Block and incubate for 5 min.

Apply Mouse-to-Mouse Blocking Reagent for 10-60min.

Apply primary antibody and incubate.

Apply UltraTek Anti-Polyvalent.

Apply UltraTek Alk-Phos.

Apply Permanent Red for 10-20 min.

Kit Components:

Super Block - 1 x 8ml - AAA008

Mouse-to-Mouse Blocking Reagent - 1 x 8ml - MTM008

UltraTek Anti-Polyvalent - 1 x 8 ml - ABN008

UltraTek Alkaline Phosphatase - 1 x 8ml - ABM008

Permanent Red Concentrate - 1 x 2ml - PRC002

Permanent Red Buffer - 7 x 5ml - PRB005

<u>Catalog Number</u>	<u>Volume</u>
MTM004	70 Slides

Mouse to Mouse Alk-Phos Staining System

Mouse to Mouse Alk-Phos Staining System is specially designed for using mouse primary antibodies on mouse tissues with minimum cross-reactivity to endogenous mouse IgG. ScyTek's Mouse to Mouse Alk-Phos Staining System provides unmatched sensitivity with incubation times of 10 minutes each for the Link Antibody and Enzyme Label. This kit has been designed for large volume use.

Species of Origin: Goat

Antigen Specificity: Anti-Polyvalent (Mouse, Rat, Rabbit and Guinea Pig)

Enzyme Conjugate: Alkaline Phosphatase

Summary Protocol:

Apply Super Block.

Apply Mouse-to-Mouse Blocking Reagent.

Apply primary antibody.

Apply UltraTek Anti-Polyvalent.

Apply UltraTek Alk-Phos.

Apply chromogen intended for use with Alkaline Phosphatase.

Kit Components:

Super Block - 3 x 15ml - AAA015

Mouse-to-Mouse Blocking Reagent - 3 x 15ml - MTM015

UltraTek Anti-Polyvalent - 3 x 15ml - ABN015

UltraTek Alkaline Phosphatase - 3 x 15ml - ABM015

Recommended but not included:

Appropriate Chromogen intended for use with Alkaline Phosphatase.

<u>Catalog Number</u>	<u>Volume</u>
MTM005	400 Slides

Mouse to Mouse HRP (AEC) Staining System

Mouse to Mouse HRP (AEC) Staining System is specially designed for using mouse primary antibodies on mouse tissues with minimum cross-reactivity to endogenous mouse IgG. ScyTek's Mouse to Mouse HRP (AEC) Staining System provides unmatched sensitivity with incubation times of 10 minutes each for the Link Antibody and Enzyme Label. This kit includes our AEC chromogen, which can be cover slipped with solvent based mounting media for long term storage.

Summary Protocol:

Incubation with an unconjugated primary antibody specific to the target antigen.

Apply Peroxide Block and incubate for 10 min.

Apply Super Block and incubate for 5 min.

Apply Mouse-to-Mouse Blocking Reagent for 10-60 min.

Apply primary antibody and incubate.

Apply UltraTek Anti-Polyvalent.

Apply UltraTek HRP.

Apply AEC Chromogen/Substrate for 10-20 min.

Kit Components:

Peroxide Block - 1 x 8ml - ACA008

Super Block - 1 x 8ml - AAA008

Mouse-to-Mouse Blocking Reagent - 1 x 8ml - MTM008

UltraTek Anti-Polyvalent - 1 x 8 ml - ABN008

UltraTek HRP - 1 x 8ml - ABL008

AEC Chromogen Concentrate - 1 x 3ml - ACD003

AEC Substrate Buffer - 6 x 5ml - ACE005

<u>Catalog Number</u>	<u>Volume</u>
MTM002	70 Slides

Mouse to Mouse HRP (DAB) Staining System

Mouse to Mouse HRP (DAB) Staining System is specially designed for using mouse primary antibodies on mouse tissues with minimum cross-reactivity to endogenous mouse IgG. ScyTek's Mouse to Mouse HRP (DAB) Staining System provides unmatched sensitivity with incubation times of 10 minutes each for the Link Antibody and Enzyme Label. This kit includes our AEC chromogen, which can be cover slipped with solvent based mounting media for long term storage.

Summary Protocol:

Incubation with an unconjugated primary antibody specific to the target antigen.

Apply Peroxide Block and incubate for 10 min.

Apply Super Block and incubate for 5 min.

Apply Mouse-to-Mouse Blocking Reagent for 10-60 min.

Apply primary antibody and incubate.

Apply UltraTek Anti-Polyvalent.

Apply UltraTek HRP.

Apply DAB Chromogen/Substrate for 10-20 min.

Kit Components:

Peroxide Block - 1 x 8ml - ACA008

Super Block - 1 x 8ml - AAA008

Mouse-to-Mouse Blocking Reagent - 1 x 8ml - MTM008

UltraTek Anti-Polyvalent - 1 x 8 ml - ABN008

UltraTek HRP - 1 x 8ml - ABL008

DAB Chromogen Concentrate - 1 x 3ml - ACB003

DAB Substrate Buffer - 6 x 5ml - ACC005

<u>Catalog Number</u>	<u>Volume</u>
MTM001	70 Slides

Mouse to Mouse HRP Staining System

Mouse to Mouse HRP Staining System is specially designed for using mouse primary antibodies on mouse tissues with minimum cross-reactivity to endogenous mouse IgG. ScyTek's Mouse to Mouse Alk-Phos Staining System provides unmatched sensitivity with incubation times of 10 minutes each for the Link Antibody and Enzyme Label. This kit has been designed for large volume use.

Species of Origin: Goat
Antigen Specificity: Anti-Polyvalent (Mouse, Rat, Rabbit and Guinea Pig)
Enzyme Conjugate: Peroxidase

Summary Protocol:

Apply Super Block.
Apply Mouse-to-Mouse Blocking Reagent.
Apply primary antibody.
Apply UltraTek Anti-Polyvalent.
Apply UltraTek HRP.
Apply chromogen intended for use with Peroxidase.

Kit Components:

Super Block - 3 x 15ml - AAA015
Mouse-to-Mouse Blocking Reagent - 3 x 15ml - MTM015
UltraTek Anti-Polyvalent - 3 x 15ml - ABN015
UltraTek HRP - 3 x 15ml - ABL015

Recommended but not included:
Appropriate Chromogen intended for use with Peroxidase.

<u>Catalog Number</u>	<u>Volume</u>
MTM003	400 Slides

Mouse-to-Mouse Blocking Reagent

ScyTek's Mouse to Mouse reagent has been formulated to provide the researcher with a staining system capable of visualizing mouse monoclonal antibodies on mouse tissue. In most cases a 30-minute incubation with Mouse to Mouse block will virtually eliminate background staining that is caused by endogenous immunoglobulins. We strongly recommend this reagent be used in conjunction with ScyTek's UltraTek Anti-Mouse Staining System for optimal results.

Species of Origin: Goat
Antigen Specificity: Anti-Mouse
Enzyme Conjugate: None
Chromogen Substrate: None

Summary Protocol:

If needed Apply Peroxide Block.
Apply Super Block.
Apply Mouse-to-Mouse Blocking Reagent.
Apply primary antibody.
Apply UltraTek Anti-Polyvalent.
Apply UltraTek HRP or UltraTek Alk-Phos.
Apply appropriate chromogen.

Recommended but not included:
UltraTek HRP Anti-Mouse Staining System - AFJ600

<u>Catalog Number</u>	<u>Volume</u>
MTM008	8 ml
MTM015	15 ml
MTM125	125 ml
MTM500	500 ml

Human to Human

Human-to-Human Blocking Reagent

ScyTek's Human to Human reagent has been formulated to provide the researcher with a staining system capable of visualizing human monoclonal antibodies on human tissue. In most cases a 30-minute incubation with Human to Human block will virtually eliminate background staining that is caused by endogenous immunoglobulins.

<u>Catalog Number</u>	<u>Volume</u>
HTH008	8 ml
HTH015	15 ml
HTH100	100 ml

Rabbit to Rabbit

Rabbit-to-Rabbit Blocking Reagent

ScyTek's Rabbit-to-Rabbit reagent has been formulated to provide the researcher with a staining system capable of visualizing Rabbit antibodies on Rabbit tissue. In most cases a 30-minute incubation with Rabbit-to-Rabbit block will virtually eliminate background staining that is caused by endogenous immunoglobulins. We highly recommend that this reagent be used in conjunction with ScyTek's UltraTek Anti-Rabbit staining system for optimal results.

<u>Catalog Number</u>	<u>Volume</u>
RTR008	8 ml
RTR015	15 ml
RTR125	125 ml
RTR500	500 ml

Blocking Reagents (IHC)

Biotin Blocking Kit

Biotin Blocking Kit has been developed to use with immunohistochemical (IHC) techniques for the reduction of nonspecific background staining due to endogenous biotin. Biotin is a coenzyme of decarboxylase. It is present in many tissues, such as liver, pancreas, kidney, and intestine. Endogenous biotin can interfere with staining systems that employ the use of biotin. This product is designed to effectively eliminate the interfering tendencies of endogenous biotin.

Clear liquid, two components (A and B).

Store Biotin Blocking Kit at 2-8 deg. C. Product is stable for 18 months from date of manufacture.

<u>Catalog Number</u>	<u>Volume</u>
BBK030	15 ml ea.
BBK120	60 ml ea.

Human-to-Human Blocking Reagent

ScyTek's Human to Human reagent has been formulated to provide the researcher with a staining system capable of visualizing human monoclonal antibodies on human tissue. In most cases a 30-minute incubation with Human to Human block will virtually eliminate background staining that is caused by endogenous immunoglobulins.

<u>Catalog Number</u>	<u>Volume</u>
HTH008	8 ml
HTH015	15 ml
HTH100	100 ml

Mouse-to-Mouse Blocking Reagent

ScyTek's Mouse to Mouse reagent has been formulated to provide the researcher with a staining system capable of visualizing mouse monoclonal antibodies on mouse tissue. In most cases a 30-minute incubation with Mouse to Mouse block will virtually eliminate background staining that is caused by endogenous immunoglobulins. We strongly recommend this reagent be used in conjunction with ScyTek's UltraTek Anti-Mouse Staining System for optimal results.

Species of Origin: Goat
Antigen Specificity: Anti-Mouse
Enzyme Conjugate: None
Chromogen Substrate: None

Summary Protocol:

If needed Apply Peroxide Block.
Apply Super Block.
Apply Mouse-to-Mouse Blocking Reagent.
Apply primary antibody.
Apply UltraTek Anti-Polyvalent.
Apply UltraTek HRP or UltraTek Alk-Phos.
Apply appropriate chromogen.

Recommended but not included:
UltraTek HRP Anti-Mouse Staining System - AF1600

<u>Catalog Number</u>	<u>Volume</u>
MTM008	8 ml
MTM015	15 ml
MTM125	125 ml
MTM500	500 ml

Peroxide Block

Peroxide Block:
Hydrogen Peroxide Blocking Reagent is designed for use in peroxidase-based immunohistochemical staining procedures on cell preparations and paraffin-embedded tissue sections. It is recommended for the reduction of background staining due to endogenous peroxidase.

Summary Protocol:
Incubation on tissue section prior to application of the primary antibody.
The approximate concentration of hydrogen peroxide is 10%.

<u>Catalog Number</u>	<u>Volume</u>
ACA015	15 ml
ACA125	125 ea.
ACA500	500 ml
ACA999	1000 ml

Peroxide Block for Image Analysis

This reagent has been developed for use with immunohistochemical (IHC) techniques for the reduction of nonspecific background staining due to endogenous peroxidase. Traditional methods describe blocking peroxidase with hydrogen peroxide. This reagent employs hydrogen peroxide in combination with additional novel components to further quench endogenous peroxidase.

Storage: 2-8 deg. Centigrade

<u>Catalog Number</u>	<u>Volume</u>
ADA015	15 ml
ADA500	500 ml
ADA999	1000 ml

Pro-Block

Is a unique serum-free protein block for immunochemistry. Pro-Block eliminates the need for matching species with the link antibody and is often, more effective at reducing non-specific background staining than normal serum.

Pro-Block is similar to Super Block, but without casein. The reagent is filtered at 0.2 microns.

<u>Catalog Number</u>	<u>Volume</u>
PBK125	125 ml
PBK500	500 ml
PBK999	1000 ml
PBK010	10 L
PBK-20000	20 L

Rabbit-to-Rabbit Blocking Reagent

ScyTek's Rabbit-to-Rabbit reagent has been formulated to provide the researcher with a staining system capable of visualizing Rabbit antibodies on Rabbit tissue. In most cases a 30-minute incubation with Rabbit-to-Rabbit block will virtually eliminate background staining that is caused by endogenous immunoglobulins. We highly recommend that this reagent be used in conjunction with ScyTek's UltraTek Anti-Rabbit staining system for optimal results.

<u>Catalog Number</u>	<u>Volume</u>
RTR008	8 ml
RTR015	15 ml
RTR125	125 ml
RTR500	500 ml

Super Block

Super Block is a unique serum-free blocking of non-specific antibody binding in IHC, ELISA and western blot. Super Block eliminates the need for matching species with the link antibody and is often, more effective at reducing non-specific background staining than normal serum. Ready-to-use no mixing required Super Block reduces the handling of animal serums in the laboratory. A streamlined formulation without normal serum in the product eliminates the need to match species with the secondary antibody.

Summary Protocol:

IHC: Incubate on tissue section prior to application of the primary antibody.

ELISA: Add Super Block to microtiter well and incubate prior to addition of sample. Rinse and continue procedure.

Western Blot: An effective blocker for this technique at room temperature.

<u>Catalog Number</u>	<u>Volume</u>
AAA125	125 ml
AAA500	500 ml
AAA999	1000 ml

Chromogens (IHC)

HRP

HRP Kits

AEC Chromogen/Substrate Bulk Kit

3-Amino-9-Ethylcarbazole, AEC Chromogen Concentrate and AEC Substrate is a widely used chromogen for immunohistochemical staining and immunoblotting. When in the presence of the peroxidase enzyme, AEC produces a vivid red end product that is soluble in alcohol. Stained slides must be mounted in any commercially available mounting media. This product is available in a convenient two component form: AEC Chromogen Concentrate and AEC Substrate. For maximum flexibility, this product is available in bulk amounts or dropper-top.

Summary Protocol:

Incubate on tissue section after application of the primary antibody.

<u>Catalog Number</u>	<u>Volume</u>
ACJ500	515 ml
ACJ999	1030 ml

AEC Chromogen/Substrate Kit

3-Amino-9-Ethylcarbazole, AEC Chromogen Concentrate and AEC Substrate is a widely used chromogen for immunohistochemical staining and immunoblotting. When in the presence of the peroxidase enzyme, AEC produces a vivid red end product that is soluble in alcohol. Stained slides must be mounted in any commercially available mounting media. This product is available in a convenient two component form: AEC Chromogen Concentrate and AEC Substrate. For maximum flexibility, this product is available in bulk amounts or dropper-top.

Substrate Pack:
55ml Substrate (5 x 11 vials)
3ml AEC Chromogen

Summary Protocol:
Incubate on tissue section after application of the primary antibody.

<u>Catalog Number</u>	<u>Volume</u>
ACG500	500 Slides

DAB (Post) Enhancing Solution

3,3'-Diaminobenzidine (DAB) is a widely used chromogen for immunohistochemical staining and immunoblotting. When in the presence of peroxidase enzyme, DAB produces a brown precipitate that is insoluble in alcohol. This product is available in a two-component form which consists of a liquid, refrigerator stable DAB Chromogen and DAB Substrate. DAB (Post) Enhancing Solution has been developed to enhance DAB staining in a post staining procedure. The DAB will turn a darker and more intense brown after post-staining treatment.

Items recommended but not included:
DAB Substrate
DAB Chromogen

Summary Protocol:
Completely cover tissue section and incubate for 1-2 minutes.

<u>Catalog Number</u>	<u>Volume</u>
DES500	500 ml
DES999	1000 ml

DAB Away Kit

Contamination with Diaminobenzidine residue is a problem seen in many laboratories. Of particular concern to the technician is the reusable glassware and staining pads. This product completely removes the stain, rather than simply reduce the color intensity as the use of bleach does. The three component kit makes one liter of cleaning solution.

COMPONENTS:
DAB Reagent #1 - 125 ml
DAB Reagent #2 - 125 ml
Decolorizer - 250 ml

<u>Catalog Number</u>	<u>Volume</u>
ACP001	500 ml

DAB Chromogen/Substrate Bulk pack

3,3'-Diaminobenzidine (DAB) Concentrate is a widely used chromogen for immunohistochemical staining and immunoblotting. When in the presence of the peroxidase enzyme, DAB produces a brown precipitate that is insoluble in alcohol. Stained slides may be mounted in any commercially available permanent mounting media. This product is available in a convenient two component form. For maximum flexibility, this product is available in bulk amounts or dropper-top.

Summary Protocol:
Incubate on tissue section after application of the primary antibody.

<u>Catalog Number</u>	<u>Volume</u>
ACK500	530 ml
ACK999	1060 ml

DAB Chromogen/Substrate Bulk Pack (High Contrast)

This product has been developed for applications that require high contrast between the chromogen and Hematoxylin counterstain. The resulting stain is a darker brown than standard DAB and more sensitive. ScyTek recommends using Hematoxyling for Automation (catalog # HAQ500) for optimal contrast. 3,3'-Diaminobenzidine (DAB) is a widely used chromogen for immunohistochemical staining and immunoblotting. When in the presence of peroxidase enzyme, DAB produces a brown precipitate that is insoluble in alcohol. This product is available in a two-component form which consists of a liquid, refrigerator stable DAB Chromogen and DAB Substrate (High Contrast). The standard working dilution is 50ul (0.9mg) of DAB Chromogen per 1ml of DAB Substrate (High Contrast), although the ratio can be adjusted as desired. The use of liquid components reduces some risks associated with handling powders, ie. dust inhalation, and eliminates waste which often results from using tablets that require a predetermined final volume. Once the two components are combined, the reagent can be used for up to six hours, ideal for automated stainers.

Summary Protocol:
Incubate on tissue section after application of the primary antibody.

<u>Catalog Number</u>	<u>Volume</u>
ACV500	530 ml
ACV999	1060 ml

HRP Individual Reagents

DAB Chromogen/Substrate Kit

3,3'-Diaminobenzidine (DAB) Concentrate is a widely used chromogen for immunohistochemical staining and immunoblotting. When in the presence of the peroxidase enzyme, DAB produces a brown precipitate that is insoluble in alcohol. Stained slides may be mounted in any commercially available permanent mounting media. This product is available in a convenient two component form. For maximum flexibility, this product is available in bulk amounts or dropper-top.

Kit contents:
5ml x 11 DAB Substrate
3ml DAB Chromogen

Summary Protocol:
Incubate on tissue section after application of the primary antibody.

<u>Catalog Number</u>	<u>Volume</u>
ACH500	500 Slides

DAB Chromogen/Substrate Kit (High Contrast)

This product has been developed for applications that require high contrast between the chromogen and Hematoxylin counterstain. The resulting stain is a darker brown than standard DAB and more sensitive. ScyTek recommends using Hematoxylin for Automation (catalog # HAQ500) for optimal contrast. 3,3'-Diaminobenzidine (DAB) is a widely used chromogen for immunohistochemical staining and immunoblotting. When in the presence of peroxidase enzyme, DAB produces a brown precipitate that is insoluble in alcohol. This product is available in a two-component form which consists of a liquid, refrigerator stable DAB Chromogen and DAB Substrate (High Contrast). The standard working dilution is 50ul (0.9mg) of DAB Chromogen per 1ml of DAB Substrate (High Contrast), although the ratio can be adjusted as desired. The use of liquid components reduces some risks associated with handling powders, ie. dust inhalation, and eliminates waste which often results from using tablets that require a predetermined final volume. Once the two components are combined, the reagent can be used for up to six hours, ideal for automated stainers.

Kit contents:
5ml x 11 DAB Substrate
3ml DAB Chromogen

Summary Protocol:
Incubate on tissue section after application of the primary antibody.

<u>Catalog Number</u>	<u>Volume</u>
ACT500	500 Slides

DAB Enhancer Solution

3,3'-Diaminobenzidine (DAB) is a widely used chromogen for immunohistochemical staining and immunoblotting. When in the presence of peroxidase enzyme, DAB produces a brown precipitate that is insoluble in alcohol. This solution has been developed to enhance DAB staining in a post staining procedure. The use of DAB Enhancer Solution will result a darker and more intense blackish-brown stain

<u>Catalog Number</u>	<u>Volume</u>
ACM030	30 ml

AEC Chromogen Concentrate

3-Amino-9-Ethylcarbazole, AEC Chromogen Concentrate is a widely used chromogen for immunohistochemical staining and immunoblotting. When in the presence of the peroxidase enzyme, AEC produces a vivid red end product that is soluble in alcohol. Stained slides must be mounted in any commercially available mounting media. This product is available in a convenient two component form: AEC Chromogen Concentrate and AEC Substrate. For maximum flexibility, this product is available in bulk amounts or dropper-top. Use with ScyTek AEC Substrate (ACE500 and ACE999).

Summary Protocol:
Incubate on tissue section after application of the primary antibody.

<u>Catalog Number</u>	<u>Volume</u>
ACD015	15 ml
ACD030	30 ml
ACD125	125 ml

AEC Substrate Buffer

3-Amino-9-Ethylcarbazole, AEC Substrate is a widely used substrate with AEC Chromogen Concentrate for immunohistochemical staining and immunoblotting. When in the presence of the peroxidase enzyme, AEC produces a vivid red end product that is soluble in alcohol. Stained slides must be mounted in any commercially available mounting media. This product is available in a convenient two component form: AEC Chromogen Concentrate and AEC Substrate. For maximum flexibility, this product is available in bulk amounts or dropper-top. Use with ScyTek AEC Chromogen Concentrate (ACD015, ACD030 and ACD125).

Summary Protocol:
Incubate on tissue section after application of the primary

<u>Catalog Number</u>	<u>Volume</u>
ACE500	500 ml
ACE999	1000 ml

DAB (Post) Enhancing Solution

3,3'-Diaminobenzidine (DAB) is a widely used chromogen for immunohistochemical staining and immunoblotting. When in the presence of peroxidase enzyme, DAB produces a brown precipitate that is insoluble in alcohol. This product is available in a two-component form which consists of a liquid, refrigerator stable DAB Chromogen and DAB Substrate. DAB (Post) Enhancing Solution has been developed to enhance DAB staining in a post staining procedure. The DAB will turn a darker and more intense brown after post-staining treatment.

Items recommended but not included:

DAB Substrate
DAB Chromogen

Summary Protocol:
Completely cover tissue section and incubate for 1-2 minutes.

<u>Catalog Number</u>	<u>Volume</u>
DES500	500 ml
DES999	1000 ml

DAB Chromogen Concentrate

3,3'-Diaminobenzidine (DAB) Concentrate is a widely used chromogen for immunohistochemical staining and immunoblotting. When in the presence of the peroxidase enzyme, DAB produces a brown precipitate that is insoluble in alcohol. Stained slides may be mounted in any commercially available permanent mounting media. This product is available in a convenient two component form. For maximum flexibility, this product is available in bulk amounts or dropper-top. Use with ScyTek DAB Substrate Buffer.

Summary Protocol:

Incubate on tissue section after application of the primary antibody.

<u>Catalog Number</u>	<u>Volume</u>
ACB030	30 ml
ACB060	60 ml
ACB125	125 ml
ACB500	500 ml
ACB999	1000 ml

DAB Enhancer Solution

3,3'-Diaminobenzidine (DAB) is a widely used chromogen for immunohistochemical staining and immunoblotting. When in the presence of peroxidase enzyme, DAB produces a brown precipitate that is insoluble in alcohol. This solution has been developed to enhance DAB staining in a post staining procedure. The use of DAB Enhancer Solution will result a darker and more intense blackish-brown stain

<u>Catalog Number</u>	<u>Volume</u>
ACM030	30 ml

DAB Substrate (High Contrast)

This product has been developed for applications that require high contrast between the chromogen and Hematoxylin counterstain. The resulting stain is a darker brown than standard DAB and more sensitive. ScyTek recommends using Hematoxyling for Automation (catalog # HAQ500) for optimal contrast. 3,3'-Diaminobenzidine (DAB) is a widely used chromogen for immunohistochemical staining and immunoblotting. When in the presence of peroxidase enzyme, DAB produces a brown precipitate that is insoluble in alcohol. This product is available in a two-component form which consists of a liquid, refrigerator stable DAB Chromogen and DAB Substrate (High Contrast). The standard working dilution is 50ul (0.9mg) of DAB Chromogen per 1ml of DAB Substrate (High Contrast), although the ratio can be adjusted as desired. The use of liquid components reduces some risks associated with handling powders, ie. dust inhalation, and eliminates waste which often results from using tablets that require a predetermined final volume. Once the two components are combined, the reagent can be used for up to six hours, ideal for automated stainers.

Items recommended but not included:
DAB Substrate (High Contrast)

Summary Protocol:

Incubate on tissue section after application of the primary antibody.

<u>Catalog Number</u>	<u>Volume</u>
ACU250	250 ml
ACU500	500 ml
ACU999	1000 ml

DAB Substrate Buffer

3,3'-Diaminobenzidine (DAB) Concentrate is a widely used chromogen for immunohistochemical staining and immunoblotting. When in the presence of the peroxidase enzyme, DAB produces a brown precipitate that is insoluble in alcohol. Stained slides may be mounted in any commercially available permanent mounting media. This product is available in a convenient two component form. For maximum flexibility, this product is available in bulk amounts or dropper-top. Use with ScyTek DAB Chromogen Concentrate.

Summary Protocol:

Incubate on tissue section after application of the primary antibody.

<u>Catalog Number</u>	<u>Volume</u>
ACC500	500 ml
ACC999	1000 ml

Alk-Phos

Alk-Phos Kits

BCIP/INT Solution

5-Bromo-4-Chloro-3-IndolylPhosphate/p-Iodonitrotetrazolium (BCIP/INT) Solution

Is a chromogen used in immunohistochemical and in-situ staining. This reagent is available as a single component, ready-to-use reagent. When in the presence of the Alkaline-Phosphatase enzyme, BCIP/INT produces a brown precipitate that is soluble in alcohol.

<u>Catalog Number</u>	<u>Volume</u>
ACL125	125 ml
ACL500	500 ml
ACL999	1000 ml

BCIP/NBT Solution

5-Bromo-4-Chloro-3-Indolyl Phosphate/nitroblue Tetrazolium (BCIP/NBT) Solution

Is a widely used chromogen for immunohistochemical and in-situ staining. This reagent is available as a single component, ready-to-use reagent. When in the presence of the Alkaline-Phosphatase enzyme, BCIP/NBT produces a purple precipitate that is soluble in alcohol.

<u>Catalog Number</u>	<u>Volume</u>
ACN125	125 ml
ACN500	500 ml
ACN999	1000 ml

Permanent Red Bulk Pack (For Alkaline Phosphatase)

Permanent Red is a chromogen for immunohistochemical staining and immunoblotting. When in the presence of alkaline phosphatase enzyme, Permanent Red produces an intense red precipitate that may be permanently mounted. Reagent may be mixed for up to 2 hours prior to application making it suitable for automated staining.

<u>Catalog Number</u>	<u>Volume</u>
PRD500	515 ml
PRD999	1030 ml

Permanent Red Kit (For Alkaline Phosphatase)

Permanent Red (For Alkaline Phosphatase) a chromogen for immunohistochemical staining and immunoblotting is designed for generating staining with the alkaline phosphatase (AP) enzyme of human primary antibodies on human tissues without background staining. Permanent Red (AP) produces an intense red precipitate that may be permanently mounted.

ScyTek's is a ready to use system that results in excellent sensitivity and high specificity using a simple protocol. In addition, as the protocol uses a polymer-based, biotin-free system, it does not require blocking of endogenous biotin

Reagent may be mixed for up to 2 hours prior to application making it suitable for automated staining.

Summary Protocol:

Combine Permanent Red Concentrate with Permanent Red Buffer.

Combined mixture may be used for up to two hours.

Kit components:

Permanent Red Concentrate - 1 x 15ml - PRC015
Permanent Red Buffer - 1 x 500ml - PRB500

Permanent Red Concentrate - 1 x 30ml - PRC030
Permanent Red Buffer - 1 x 1000ml - PRB999

<u>Catalog Number</u>	<u>Volume</u>
PRD-15	15 ml
PRD-61	61 ml

Alk-Phos Individual Reagents

Alkaline Phosphatase Enhancer

A quick and effective solution for enhancing the signal of chromogens that utilize Alkaline Phosphatase as the enzyme. ScyTek's Alk-Phos kits do not need this solution for maximum signal, but other systems may benefit from its use.

<u>Catalog Number</u>	<u>Volume</u>
APE125	125 ml
APE500	500 ml
APE999	1000 ml

BCIP/INT Solution

5-Bromo-4-Chloro-3-IndolylPhosphate/p-Iodonitrotetrazolium (BCIP/INT) Solution

Is a chromogen used in immunohistochemical and in-situ staining. This reagent is available as a single component, ready-to-use reagent. When in the presence of the Alkaline-Phosphatase enzyme, BCIP/INT produces a brown precipitate that is soluble in alcohol.

<u>Catalog Number</u>	<u>Volume</u>
ACL125	125 ml
ACL500	500 ml
ACL999	1000 ml

BCIP/NBT Solution

5-Bromo-4-Chloro-3-Indolyl Phosphate/nitroblue Tetrazolium (BCIP/NBT) Solution

Is a widely used chromogen for immunohistochemical and in-situ staining. This reagent is available as a single component, ready-to-use reagent. When in the presence of the Alkaline-Phosphatase enzyme, BCIP/NBT produces a purple precipitate that is soluble in alcohol.

<u>Catalog Number</u>	<u>Volume</u>
ACN125	125 ml
ACN500	500 ml
ACN999	1000 ml

Ancillary (IHC)**BRIJ 35 Solution (25-30%)**

BRIJ 35 Solution is a nonionic polyoxyethylene surfactant used in a variety of protein methods. The reagent is an aqueous base containing 25-30% w/v proteomics grade BRIJ 35 making it optimal for use as a wetting agent in immunohistochemical reagents.

<u>Catalog Number</u>	<u>Volume</u>
BRJ500	500 ml
BRJ999	1000 ml

Primary Antibody Dropper Vial

Provides a simple solution for storing and dispensing of diluted primary antibodies. Using a permanent marker, simply fill in the Antibody, Species, Date Manufactured, and the Expiration Date. Store diluted antibody at 2-8 C.

Contains: 1x15ml Vial, 1 Dropper Tip, 1 Green Cap, and 3 printed labels.

<u>Catalog Number</u>	<u>Volume</u>
PAV015	1 ea.

Antibody Diluents and Stabilizers**Alk-Phos Stabilizing Diluent**

This reagent is formulated specifically for Alkaline Phosphatase conjugates. The product insures consistently high levels of activity for both the enzyme and the antibody following long-term storage at final dilution. This product has been chemically engineered to increase conjugate stability providing the customer a longer shelf life, resistance to various shipping conditions and storage temperatures. Alk-Phos Stabilizing Diluent is filtered at 0.2 um and reinforced with a non-mercury or azide-free preservative. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
APD500	500 ml
APD999	1000 ml

Enzyme Label Diluent

Provided as a ready-to-use diluent for enzyme labeled antibodies and streptavidin/avidin enzyme conjugates. Diluted reagents can be stored at 2-8 deg. C for up to 18 months at immunohistochemical dilutions. This reagent is subjected to 0.2 micron filtration.

<u>Catalog Number</u>	<u>Volume</u>
ABI500	500 ml
ABI999	1000 ml

HRP Stabilizing Diluent (MOPS Buffered)

HRP Stabilizing Diluent (MOPS Buffered) has been developed specifically for the stabilization of Horseradish Peroxidase conjugates in solution. HRP Stabilizer prevents the loss of catalytic activity and maintains the conformation of the antibody or protein antigen portion of the conjugate. Product is filtered at 0.2 microns.

Contents: Aqueous, protein-containing diluent and stabilizer for Horseradish Peroxidase conjugates.

Preservative: 0.02% Bromonitrodioxane, 0.02% 2-Methyl-4-isothiazolin-3-one, 0.005% Proclin 300 (Proclin is a registered trademark of Rohm & Haas Company), and 0.0008% Neomycin.

<u>Catalog Number</u>	<u>Volume</u>
HSM125	125 ml
HSM500	500 ml
HSM999	1000 ml

HRP Stabilizing Diluent (Phosphate Buffered)

This product has been developed to significantly increase the shelf life of diluted peroxidase labeled proteins. Stability is increased at room temperature storage conditions in addition to 2-8 centigrade. This product is subjected to 0.45 micron filtration, and contains no mercury or azide. This formulation insures consistently high levels of activity for both the enzyme and the antibody following long-term storage at final-use dilution. HRP Stabilizer greatly improves the signal to noise ratios which increases the immunoassay sensitivity and offers cleaner assays. This product has been chemically engineered to increase conjugate stability providing the customer a longer shelf life, resistance to various shipping conditions & storage temperatures and improved day to day assay precision.

This product is recommended to be used in conjunction with ScyTek's proprietary Coating Stabilizer, Blocking Buffer (Super Block), Washing solution, TMB and Stopping Solution. All of the ELISA products are available in bulk quantities, including custom lot sizes up to 5000 liters. ScyTek Laboratories, Inc. specializes in custom manufacturing, vialing, labeling and packaging. Call today for a quote 800-729-8350.

<u>Catalog Number</u>	<u>Volume</u>
HSB500	500 ml
HSB999	1000 ml

Normal Antibody Diluent (Phosphate Buffered)

Provided as a ready-to-use diluent for primary antibodies and link/secondary antibodies. In most cases, antibodies diluted in this reagent can be stored at 4-8 deg. C for up to 18 months. Diluent is subjected to 0.2 micron filtration.

<u>Catalog Number</u>	<u>Volume</u>
ABB125	125 ml
ABB500	500 ml
ABB999	1000 ml

Normal Antibody Diluent (Tris Buffered)

Provided as a ready-to-use diluent for primary antibodies and link/secondary antibodies. In most cases, antibodies diluted in this reagent can be stored at 4-8 deg. C for up to 18 months. Diluent is subjected to 0.2 micron filtration.

<u>Catalog Number</u>	<u>Volume</u>
ADT125	125 ml
ADT500	500 ml
ADT999	1000 ml

Primary Antibody Diluent (Phosphate, Green)

Provided as a ready-to-use (Phosphate Buffered) diluent containing green dye for diluting primary antibodies and for use as a negative control. Both monoclonal and polyclonal antibodies are stabilized for long-term storage thereby reducing the number of titrations required from concentrated form. This product contains a highly purified carrier protein that minimizes proteolytic enzyme degradation, a wetting agent to reduce surface tension and an anti-microbial agent to prevent microbial growth. Not for antibodies that have been conjugated with peroxidase. In most cases, antibodies diluted in this reagent can be stored for 24 months at 2-8 C. Diluent is subjected to 0.2 micron filtration.

pH 7.4

<u>Catalog Number</u>	<u>Volume</u>
APG125	125 ml
APG500	500 ml
APG999	1000 ml
APG010	10 L

Primary Antibody Diluent (Tris, Green)

Provided as a ready-to-use (Tris Buffered) diluent containing green dye for diluting primary antibodies and for use as a negative control. Both monoclonal and polyclonal antibodies are stabilized for long-term storage thereby reducing the number of titrations required from concentrated form. This product contains a highly purified carrier protein that minimizes proteolytic enzyme degradation, a wetting agent to reduce surface tension and an anti-microbial agent to prevent microbial growth. Not for antibodies that have been conjugated with peroxidase. In most cases, antibodies diluted in this reagent can be stored for 24 months at 2-8 C. Diluent is subjected to 0.2 micron filtration.

pH 7.4

<u>Catalog Number</u>	<u>Volume</u>
ATG125	125 ml
ATG500	500 ml
ATG999	1000 ml
ATG-20000	20 L

Digestion Enzymes and Enhancers**Citrate Buffer (10x) pH 6.0**

Citrate Buffer (10X) HIER Solution (pH 6.0) is a unique citrate buffer designed to significantly enhance immunohistochemical staining with many commercially available primary antibodies. Diluted 1:10 with deionized or distilled water, this product is easy to use and highly effective.

<u>Catalog Number</u>	<u>Volume</u>
CBB125	125 ml
CBB500	500 ml
CBB999	1000 ml

Citrate Plus (10x) HIER Solution

Citrate Plus (10x) HIER Solution is a unique citrate buffer designed to significantly enhance immunohistochemical staining with many commercially available primary antibodies. Citrate Plus is a solution which that enables rehydration for antigen retrieval to be performed on formalin-fixed, paraffin-embedded tissue sections with one easy convenient step. Diluted 1:10 with deionized or distilled water, this product is easy to use and highly effective. Citrate Plus (10x) HIER Solution is an excellent option when the results will be viewed with an image analysis system. Citrate Plus (10X) can be used in a vegetable steamer, autoclave, or pressure cooker. However, for optimal results it is recommended with autoclave or pressure cooker.

<u>Catalog Number</u>	<u>Volume</u>
CPL500	500 ml
CPL999	1000 ml

EDTA - Saline Buffer (10X Concentrate); pH 8.0

EDTA Buffer (10X) HIER Solution (pH 8.0) is a unique buffer designed to significantly enhance immunohistochemical staining with many commercially available primary antibodies. Diluted 1:10 with deionized or distilled water, this product is easy to use and highly effective.

<u>Catalog Number</u>	<u>Volume</u>
ETA500	500 ml
ETA999	1000 ml

Pepsin, Stabilized Solution

The tissue section is incubated 10 minutes at 37 deg. centigrade in this single component, ready-to-use solution. This product is stable for 12 months at 4 deg. Centigrade. Pepsin is a commonly used digestive enzyme for immunohistochemical procedures. This product is provided as a single component, ready-to-use solution.

<u>Catalog Number</u>	<u>Volume</u>
PSS060	60 ml
PSS125	125 ml

Tris-EDTA HIER Solution (10x) pH 9.0

Tris-EDTA HIER Solution (10x) pH 9.0 is a unique buffer designed to significantly enhance immunohistochemical staining with many commercially available primary antibodies. Diluted 1:10 with deionized or distilled water, this product is easy to use and highly effective.

<u>Catalog Number</u>	<u>Volume</u>
TES500	500 ml
TES999	1000 ml

Trypsin Enzymatic Digestion Kit

The tissue section is incubated 10 minutes at 37 deg. centigrade in this two component, ready-to-use solution. This product is stable for 9 months at 2-8 deg. Centigrade. This product contains 30 or 60 ml of Trypsin concentrate, and 125 or 250 ml of Buffer.

<u>Catalog Number</u>	<u>Volume</u>
TSS155	155 ml
TSS310	310 ml

Buffers**Phosphate Buffered Saline (10x) pH 7.4**

ScyTek Phosphate Buffered Saline (10x) pH 7.4 is an optimal formulation of pH stabilizers and salts designed to effectively remove excess material from the microtiter plate wells without disrupting the ELISA binding reaction. By maintaining the proper buffering environment, unbound components can be washed away without suppressing antigen-antibody binding interactions, thereby reducing nonspecific background and increasing the specific signal. Our Wash buffers do not contain hazardous preservatives such as Azide or Mercury that may interfere with antibody-antigen binding interactions. For your convenience wash buffer is offered in a wide variety of formulations to meet the needs of your specific ELISA application. This product can be customized to meet the specific needs of your assay. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
PBD500	500 ml
PBD999	1000 ml
PBD010	10 L
PBD-20000	20 L

Phosphate Buffered Saline (25x) pH 7.6

ScyTek Phosphate Buffered Saline (25x) a perfect wash buffer for use with immunolabeling techniques such as IHC.

ScyTek Phosphate Buffered Saline (25x) is an optimal formulation of pH stabilizers, salts and detergents designed to effectively remove excess material from the microtiter plate wells without disrupting the ELISA binding reaction. By maintaining the proper buffering environment, unbound components can be washed away without suppressing antigen-antibody binding interactions, thereby reducing nonspecific background and increasing the specific signal. Our Wash buffers do not contain hazardous preservatives such as Azide or Mercury that may interfere with antibody-antigen binding interactions. For your convenience wash buffer is offered in a wide variety of formulations to meet the needs of your specific application. This product can be customized to meet the specific needs of your assay. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
PBS125	125 ml
PBS500	500 ml
PBS999	1000 ml
PBS010	10 L
PBS-20000	20 L

Phosphate Buffered Saline plus Tween 20 (10x) pH 7.4

ScyTek Phosphate Buffered Saline + Tween 20 (10x) pH of 7.4 is an optimal formulation of pH stabilizers, salts and detergents designed to effectively remove excess material from the microtiter plate wells without disrupting the ELISA binding reaction. By maintaining the proper buffering environment, unbound components can be washed away without suppressing antigen-antibody binding interactions, thereby reducing nonspecific background and increasing the specific signal. Our Wash buffers do not contain hazardous preservatives such as Azide or Mercury that may interfere with antibody-antigen binding interactions. For your convenience wash buffer is offered in a wide variety of formulations to meet the needs of your specific ELISA application. This product can be customized to meet the specific needs of your assay. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
PBE500	500 ml
PBE999	1000 ml
PBE010	10 L
PBE-20000	20 L

Phosphate Buffered Saline plus Tween 20 (20x) pH 7.6

ScyTek Phosphate Buffered Saline plus Tween 20 (20x) a perfect wash buffer for use with immunolabeling techniques such as IHC.

ScyTek Phosphate Buffered Saline plus Tween 20 (20x) is an optimal formulation of pH stabilizers, salts and detergents designed to effectively remove excess material from the microtiter plate wells without disrupting the ELISA binding reaction. By maintaining the proper buffering environment, unbound components can be washed away without suppressing antigen-antibody binding interactions, thereby reducing nonspecific background and increasing the specific signal. Our Wash buffers do not contain hazardous preservatives such as Azide or Mercury that may interfere with antibody-antigen binding interactions. For your convenience wash buffer is offered in a wide variety of formulations to meet the needs of your specific application. This product can be customized to meet the specific needs of your assay. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
PBT500	500 ml
PBT999	1000 ml
PBT010	10 L
PBT-20000	20 L

Tris Buffered Saline (10x) pH 7.5

ScyTek Tris Buffered Saline (10x) pH of 7.5 is an optimal formulation of pH stabilizers, salts and detergents designed to effectively remove excess material from the microtiter plate wells without disrupting the ELISA binding reaction. By maintaining the proper buffering environment, unbound components can be washed away without suppressing antigen-antibody binding interactions, thereby reducing nonspecific background and increasing the specific signal. Our Wash buffers do not contain hazardous preservatives such as Azide or Mercury that may interfere with antibody-antigen binding interactions. For your convenience wash buffer is offered in a wide variety of formulations to meet the needs of your specific ELISA application. This product can be customized to meet the specific needs of your assay. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
TBD500	500 ml
TBD999	1000 ml
TBD010	10 L
TBD-20000	20 L

Tris Buffered Saline (25x) pH 7.4

ScyTek Tris Buffered Saline (25x) a perfect wash buffer for use with immunolabeling techniques such as IHC.

ScyTek Tris Buffered Saline (25x) is an optimal formulation of pH stabilizers, salts and detergents designed to effectively remove excess material from the microtiter plate wells without disrupting the ELISA binding reaction. By maintaining the proper buffering environment, unbound components can be washed away without suppressing antigen-antibody binding interactions, thereby reducing nonspecific background and increasing the specific signal. Our Wash buffers do not contain hazardous preservatives such as Azide or Mercury that may interfere with antibody-antigen binding interactions. For your convenience wash buffer is offered in a wide variety of formulations to meet the needs of your specific application. This product can be customized to meet the specific needs of your assay. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
TBS500	500 ml
TBS999	1000 ml
TBS010	10 L
TBS-20000	20 L

Tris Buffered Saline plus Tween 20 (10x) pH 7.5

ScyTek Tris Buffered Saline + Tween 20 (10x) pH of 7.5 is an optimal formulation of pH stabilizers, salts and detergents designed to effectively remove excess material from the microtiter plate wells without disrupting the ELISA binding reaction. By maintaining the proper buffering environment, unbound components can be washed away without suppressing antigen-antibody binding interactions, thereby reducing nonspecific background and increasing the specific signal. Our Wash buffers do not contain hazardous preservatives such as Azide or Mercury that may interfere with antibody-antigen binding interactions. For your convenience wash buffer is offered in a wide variety of formulations to meet the needs of your specific ELISA application. This product can be customized to meet the specific needs of your assay. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
TBE500	500 ml
TBE999	1000 ml
TBE010	10 L
TBE-20000	20 L

Tris Buffered Saline plus Tween 20 (20x Concentrate) pH 7.4

ScyTek Tris Buffered Saline plus Tween 20 (20x) is a perfect wash buffer for use with immunolabeling techniques such as IHC or ELISA.

ScyTek Tris Buffered Saline plus Tween 20 (20x) is an optimal formulation of pH stabilizers, salts and detergents designed to effectively remove excess material from the microtiter plate wells without disrupting the ELISA binding reaction. By maintaining the proper buffering environment, unbound components can be washed away without suppressing antigen-antibody binding interactions, thereby reducing nonspecific background and increasing the specific signal. Our Wash buffers do not contain hazardous preservatives such as Azide or Mercury that may interfere with antibody-antigen binding interactions. For your convenience wash buffer is offered in a wide variety of formulations to meet the needs of your specific application. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
TBT500	500 ml
TBT999	1000 ml
TBT010	10 L
TBT-20000	20 L

Mounting Media (IHC)

Aqueous Mount

Aqueous Mount is an aqueous mounting medium formulated for use with chromogenic tissue and cell staining. It may be used with immunohistochemistry, special stains, chromogens such as Fast-Red or AEC that require an aqueous mounting medium, or those that do not, such as DAB. Available in convenient dropper top bottles. Coverslips can be removed by soaking in water. No heating is required before use. When it is dry, it produces an even surface.

Summary Protocol:

Apply adequate Aqueous Mount to cover sample on microscope slide and coverslip. Allow slides to dry.

<u>Catalog Number</u>	<u>Volume</u>
AMT030	30 ml
AMT060	60 ml
AMT500	500 ml
AMT999	1000 ml

Aqueous Mount (Low Viscosity)

Aqueous Mount (Low Viscosity) is an aqueous mounting medium formulated for use with chromogenic tissue and cell staining. It may be used with immunohistochemistry, special stains, chromogens such as Fast-Red or AEC that require an aqueous mounting medium, or those that do not, such as DAB. Available in convenient dropper top bottles. Coverslips can be removed by soaking in water. No heating is required before use. When it is dry, it produces an even surface. Low viscosity formula flows more freely than Aqueous Mount part number AMT.

Summary Protocol:

Apply adequate Aqueous Mount (Low Viscosity) to cover sample on microscope slide and coverslip. Allow slides to dry.

<u>Catalog Number</u>	<u>Volume</u>
AML030	30 ml
AML060	60 ml
AML500	500 ml
AML999	1000 ml

Buffered Glycerol Mounting Media

Buffered Glycerol Mounting Media is a non-drying formulation mounting medium formulated for use with immunofluorescence, immunohistochemistry, special stains, chromogenic tissue, and cell staining. Available in convenient dropper top bottles. Coverslips may be removed by soaking in water. No heating is required before use. Specialty formulation which contains no anti-fade components.

Summary Protocol:

Apply adequate Buffered Glycerol Mounting Media to cover sample on microscope slide and coverslip. If desired, seal edges with nail polish or synthetic resin mounting media.

For immunofluorescent procedures, store slides at 2-8 C in the dark.

<u>Catalog Number</u>	<u>Volume</u>
GMM003	3 ml
GMM030	30 ml
GMM500	500 ml
GMM999	1000 ml

FluoreGuard Mounting Medium

FluoreGuard Mounting Medium is a water-soluble formulation mounting medium is designed for semi-coverslipping of fluorescent slide preparations. For use with immunofluorescence, Immunohistochemistry, special stains, chromogenic tissue, and cell staining. Available in convenient dropper top bottles. FluoreGuard is an aqueous based medium and may be removed by soaking in PBS overnight. FluoreGuard dries to a semi-rigid layer which eliminates tissue damage due to moving coverslips and facilitates long term storage.

Summary Protocol:

Apply several drops of FluoreGuard Mounting Medium and coverslip.

Allow FluoreGuard to dry for 30 minutes prior to viewing. Product will dry to a semi-solid form overnight.

<u>Catalog Number</u>	<u>Volume</u>
FMM030	30 ml
FMM060	60 ml
FMM500	500 ml
FMM999	1000 ml

FluoreGuard Mounting Medium (Hard Set)

FluoreGuard Mounting Medium (Hard Set) is a water-soluble formulation mounting medium is designed for semi-coverslipping of fluorescent slide preparations in humid conditions. For use with immunofluorescence, Immunohistochemistry, special stains, chromogenic tissue, and cell staining. Available in convenient dropper top bottles. FluoreGuard Mounting Medium (Hard Set) is a water-soluble medium which may be removed by soaking in PBS overnight. FluoreGuard Mounting Medium (Hard Set) dries to a semi-rigid layer which eliminates tissue damage due to moving coverslips and facilitates long term storage.

Summary Protocol:

Apply several drops of FluoreGuard Mounting Medium (Hard Set) and coverslip.

Allow FluoreGuard Mounting Medium (Hard Set) to dry for 30 minutes prior to viewing.

Product will dry to a semi-solid form overnight.

<u>Catalog Number</u>	<u>Volume</u>
FMH030	30 ml
FMH060	60 ml
FMH500	500 ml
FMH999	1000 ml

Permanent Mounting Media (Aqueous)

AEC and Fast Red are common chromogens for peroxidase and alkaline phosphatase based immunostaining. Slides stained with these chromogens cannot be stored permanently. Permanent Mounting Medium (Aqueous) has been designed to overcome this limitation. This product is an aqueous mounting medium with a very high refractive index, which when applied to the stained tissue sections can store the tissue specimens permanently without fading of the chromogens. Due to the superior refractive index, tissues mounted in this medium look like dehydrated specimens. No cover slipping is required. However, if cover slipping is desired, dry slides can be post mounted using an organic based mounting medium. Advantages of this product include: no coverslip, no exposure to the organic fumes, permanent storage of slides and high resolution of tissue specimens. This reagent is compatible with AEC, DAB, Fast Red, BCIP/NBT, BCIP/INT and fluorescent dyes like FITC and phycobiliproteins. High pH ensures increased stability of fluorescence.

Summary Protocol:

Apply 2-3 drops directly on tissue sections. Gently rotate glass slide to make a thin layer of medium. Make certain that tissue is completely covered.

<u>Catalog Number</u>	<u>Volume</u>
PMT030	30 ml

PlastiMount - Mounting Medium

This product is a fast drying, organic solvent (Toluene) based acrylic polymer for permanent mounting of tissue specimens stained with most biological dyes. In addition, this product may be used in immunohistochemical procedures with chromogen substrates such as DAB or Permanent Red. PlastiMount is designed to be optically clear (RI = 1.48), with a refractive index close to that of fixed protein. Lower viscosity makes this product easy to use. PlastiMount will not discolor, crack, or lose its adhesive properties with age.

<u>Catalog Number</u>	<u>Volume</u>
PMM100	100 ml
PMM500	500 ml

PT Mount - Mounting Medium

An organic solvent (Toluene) based mount for permanent mounting of tissue specimens. This mount is compatible with all biological dyes and immunohistochemical stains requiring a solvent based mount. PT mount designed to be optically clear, with a refractive index close to that of fixed protein. Slides will not fade over time when stored in the dark

<u>Catalog Number</u>	<u>Volume</u>
PTM100	100 ml
PTM500	500 ml

Miscellaneous (IHC)

KP Marker Plus

Klinipath KP Marker Plus is a solvent resistant marking pen for permanent writing on glass slides, cassettes and other items in the laboratory. One box contains 12 pens.

<u>Catalog Number</u>	<u>Volume</u>
KPM-1	12 Pen(s)

PAP Pen

This marking pen has been designed to provide a thin film-like barrier when a circle is drawn around the specimen on a slide. This barrier creates the proper surface tension to hold an antibody solution within the target area on the slide. PAP Pen contains a special formulation which is insoluble in alcohol and acetone. It can be removed, if desired, by xylene after the staining procedure is completed.

<u>Catalog Number</u>	<u>Volume</u>
LP0001	1 ea.

PAP Pen-Mini

This marking pen has been designed to provide a thin film-like barrier when a circle is drawn around the specimen on a slide. This barrier creates the proper surface tension to hold an antibody solution within the target area on the slide. PAP Pen contains a special formulation which is insoluble in alcohol and acetone. It can be removed, if desired, by xylene after the staining procedure is completed.

<u>Catalog Number</u>	<u>Volume</u>
LP0002	1 ea.

Equipment (IHC)

Dissecting Board

A new and unique approach makes this dissecting board more convenient than any other found on the market today. It is no more necessary to buy different sizes as this board offers a large surface on one side and two smaller ones on the other side.

Made of heavy-duty stain resistant thick polyethylene, it will last for years to come without changing shape, bending or swelling. Will not dull fine surgical blades. In order to contain fluids, a drain groove is carved all around the edge of the DissecTable.

On one side, you will find a large cutting area including dimensional scales in inches and centimeters, along with a 60 x 80 mm grid made of 48 x 10 mm squares. Six dimensional circles are also printed from 1/8 to 5/8 in. and 4 to 14 mm in diameter. Flip it over and the other side offers two cutting boards half the size with the same dimensional features printed on each one of them. All corners have rubber feet giving more stability to the working surface.

Dimensions: 575 mm x 400 mm x 12.5 mm (23 x 16 x 1/2 in H)

<u>Catalog Number</u>	<u>Volume</u>
M620	1 ea.

Dissecting Board Jr.

A smaller DissecTable is also available with the same features and benefits as the M620. Perfect for smaller counter area.

Dimensions: 330.2 mm x 279.4 mm x 12.5 mm (13 x 11 x 1/2 in H)

<u>Catalog Number</u>	<u>Volume</u>
M618	1 ea.

EasyDip Slide Staining System

Finally a user-friendly approach for staining your microscope slides, the EasyDip Slide Staining System has two components: a square staining jar and a 12 - position vertical slide rack. Jars can be loosely joined to each other laterally, therefore making sure they are kept in the same order when moved around on the lab counter. As an extra benefit, they are available in 5 different colors to help better identifying contents or applications.

The staining jar being made of resistant acetal plastic will not break like most glass jars do. It will resist most staining agents including alcohol and xylene (but not phenol, iodine or ferric chloride). The wide stable base offers greater stability while the inside is recessed, allowing for a smaller reagent volume of only 80 ml. Easy to clean and no metals to corrode. Ideal for special stains, frozen sections and special processes. Will resist temperatures between -170 C and +121 C. Autoclavable. Dimensions: 64 x 76 x 92 mm H (2 1/2 x 3 x 3 5/8 in. H).

Each case includes 5 jars (one of each color) and 1 rack M905-12DGY.

<u>Catalog Number</u>	<u>Volume</u>
M900-12AS-ASSORTED	1 Case(s)

EASYDIP Stainless Steel Holder

Made of Stainless Steel. Will hold up to 6 Jars.

<u>Catalog Number</u>	<u>Volume</u>
M906	1 ea.

Slide Master

(An Innovative Immunohistochemistry Humidity Chamber)

ScyTek Laboratories, Inc. proudly introduces SlideMaster. A humidity chamber designed by a histotechnologist that eliminates the majority of individual slide handling.

SlideMaster has three different parts: A humidity chamber, two individual slide holders with white contrast bars, and a waste receptacle. It has been designed so that all three components are compact and easy to use. A maximum of 20 slides can be used per unit.

This is how it works. A hydrophobic barrier (PAP Pen, Catalog #LP0001) is drawn around the tissue section and slides are put in a special slide holder that secures them into place. Drops of antibody are placed on the slides and incubated. After incubation, the individual slide holders can be tilted and secured at a 45 degree angle. All 20 slides are rinsed off in one easy motion and the buffer (PBS-Tween 20, Catalog # ABA125 or TBS-Tween 20, Catalog # TBS125) drains into the waste receptacle. Slides are gently blotted (tissue paper) at the bottom portion of the hydrophobic barrier, which draws off any remaining liquid on the tissue. The slide holders are then placed back in the horizontal position and incubation and rinse steps are repeated in the same fashion.

For chromogen development, the SlideMaster unit has a contrast bar that changes the background from black to white. The black background produces high contrast so that the tissues mounted glass slides can be easily seen, and the white background produces high contrast and allows the technician to monitor the chromogen development. Slides are then rinsed and counterstained and are then ready for coverslipping. SlideMaster is very easy to use. It is light weight and durable.

By making the hydrophobic barrier around the tissue section as small as possible, the total volume of antibody reagent can be significantly reduced per slide. Instead of using 100-200 microliters of antibodies per tissue section usually 50 microliters will completely cover small tissues and 100 microliters will cover larger tissues. With this method, slide staining is much more efficient, more consistent, drying-out of slides is minimized, and the cost of reagents is reduced.

<u>Catalog Number</u>	<u>Volume</u>
E00001	1 ea.

Slidefile Storage System 100 Positions

Each SlideFile Storage System includes a slide box and a removable tray. A tinted hinged cover makes the contents of the box easy to see at a glance. The base is available in five different colors to help in slide classification and to minimize the possibility of sample mix-up.

The key to the SlideFile System is a removable tray inside the storage box having a hundred individual numbered slots. All slides are stored upright for easier insertion and removal. Simply tilt them forward and backward with one finger to easily and rapidly pick up the slide you need. A unique feature with this system is to be able to read bar codes without having to remove the slides from the box.

For space saving purposes, you can double the amount of slides simply by storing two slides per slot. For maximum storage space, simply remove the tray and line up 400 slides in 3 rows for long term storage. Will resist temperatures between -80 C and +80 C. Not autoclavable.

Dimensions: 82 x 245 x 86 mm H (3 1/4 x 9 5/8 x 3 3/8 in. H)

<u>Catalog Number</u>	<u>Volume</u>
M700-100W-WHITE	1 Case(s)

Stain Tray Slide Staining System

Made of ABS Plastic

Another user friendly approach to immunohistochemistry staining. This tray is also suitable not only for routine staining requiring a humid chamber but is also ideal for Hematology, Cytology and Microbiology laboratories. Manipulation is made safe and easy by using only one hand.

The StainTray has a black base made of tough ABS plastic withstanding a wide range of chemicals (Avoid chlorinated hydrocarbons). It will accept up to 20 slides on four plastic rails covered with a polymer strip to perfectly hold slides even if tray is held at an angle. When humidity is needed, wells between rails will hold up to one ml of water securely without splashing. Middle wells will hold up to 2 ml each. Rails are raised not only to avoid water touching the slides but to make them more easily retrieveable. The base will also hold excess stain solution dripping from the slides. Four rubber feet ensure greater base stability. Units are stackable for space saving purposes.

Two covers are available:

A clear one (M920-1) allowing for visual examination. Made of PETG with a temperature range of -20 C to +60 C.

A black lid (M920-2) for fluorescent work. Made of ABS with a temperature range of -80 C to +80 C.

Dimensions with cover: 38 W x 24 D x 4.5 H cm (15 W x 9 3/8 D x 1 3/4 H in.)

<u>Catalog Number</u>	<u>Volume</u>
M920-1	1 Clear

Vertical Slide Staining Rack Dark Gray

The EasyDip Slide Staining Rack will hold up to 12 microscope slides with dimensions such as 75 x 25 mm, (3 x 1 in.) and even 76 x 26 mm and with a thickness of 1.0 and 1.2 mm. The slides fit into individual slots for free passage and rapid drainage of staining fluids. Since they are placed vertically in the rack and not horizontally, their writing area will not be stained by the fluid, allowing their removal without the use of forceps. The lid completely covers the EasyDip Slide Staining Jar to minimize spill and evaporation. A handle is permanently attached to the rack for easy insertion and removal of slides without your fingers touching the solution. Available in dark gray only. Will resist temperatures between -170 C and +121 C. Autoclavable. Dimensions: 60 x 64 x 97 mm H (2 1/4 x 2 1/2 x 3 3/4 in. H).

<u>Catalog Number</u>	<u>Volume</u>
M905-12DGY	1 Case(s)

Antibodies

Research Antibodies

Carcinoembryonic Antigen (CEA) / CD66; Clone C66/1030 (Concentrate)

Species: Mouse
 Immunogen: Recombinant full-length human CEA protein
 Clone: C66/1030
 Isotype: IgG1, kappa
 Species Reactivity: Human, Others not known.
 Positive Control: MCF7 or 293T cells. Colon carcinoma.
 Specificity: This antibody recognizes proteins of 80-200kDa, identified as different members of CEA family. This MAb does not react with nonspecific cross-reacting antigen (NCA) and with human polymorphonuclear leucocytes. It shows no reaction with a variety of normal tissues and is suitable for staining of formalin/paraffin tissues.
 Status: RUO

Catalog Number	Volume
RA0490-C.1	0.1 ml
RA0490-C.5	0.5 ml
RA0490-C1	1 ml

Monoclonal Concentrate

ACTH (Adrenocorticotrophic Hormone); Clone 2F6 (Concentrate)

Species: Mouse
 Immunogen: Synthetic peptide corresponding to aa 1-24 of human ACTH
 Clone: 2F6
 Isotype: IgG1, kappa
 Species Reactivity: Human, Mouse, and Rat. Expected to show a broad species reactivity.
 Positive Control: Normal pituitary gland or pituitary tumor.
 Specificity: This antibody is specific to Synacthen (aa 1-24 of ACTH); this antibody does not react with CLIP (aa 17-39 of ACTH).
 Anti-ACTH is a useful marker in classification of pituitary tumors and in the study of pituitary disease. It reacts with ACTH-producing cells (corticotrophs). It also may react with other tumors (e.g. some small cell carcinomas of the lung) causing paraneoplastic syndromes by secreting ACTH.
 Status: RUO

Catalog Number	Volume
RA0267-C.1	0.1 ml
RA0267-C.5	0.5 ml

ACTH (Adrenocorticotrophic Hormone); Clone 57 (Concentrate)

Species: Mouse
 Immunogen: N-terminal fragment of human ACTH conjugated to KLH
 Clone: 57
 Isotype: IgG1, kappa
 Species Reactivity: Human and Rat. Expected to show a broad species reactivity.
 Positive Control: Normal pituitary gland or pituitary tumor.
 Specificity: This antibody is specific to Synacthen (aa 1-24 of ACTH); this antibody does not react with CLIP (aa 17-39 of ACTH).
 Anti-ACTH is a useful marker in classification of pituitary tumors and in the study of pituitary disease. It reacts with ACTH-producing cells (corticotrophs). It also may react with other tumors (e.g. some small cell carcinomas of the lung) causing paraneoplastic syndromes by secreting ACTH.
 Status: RUO

Catalog Number	Volume
RA0266-C.1	0.1 ml
RA0266-C.5	0.5 ml

ACTH (Adrenocorticotrophic Hormone); Clone AH26 & 57 (Concentrate)

Species: Mouse
 Immunogen: Synthetic peptide corresponding to aa 1-24 of human ACTH (AH26); N-terminal fragment of human ACTH conjugated to KLH (57).
 Clone: AH26 & 57
 Isotype: IgG1, kappa (AH26); IgG1, kappa (57).
 Species Reactivity: Human, Mouse, and Rat. Expected to show a broad species reactivity.
 Positive Control: Normal pituitary gland or pituitary tumor.
 Specificity: This antibody is specific to Synacthen (aa 1-24 of ACTH); this antibody does not react with CLIP (aa 17-39 of ACTH).
 Anti-ACTH is a useful marker in classification of pituitary tumors and in the study of pituitary disease. It reacts with ACTH-producing cells (corticotrophs). It also may react with other tumors (e.g. some small cell carcinomas of the lung) causing paraneoplastic syndromes by secreting ACTH.
 Status: RUO

Catalog Number	Volume
RA0268-C.1	0.1 ml
RA0268-C.5	0.5 ml

ACTH (Adrenocorticotrophic Hormone); Clone AH26 (Concentrate)

Species: Mouse
 Immunogen: Synthetic peptide corresponding to aa 1-24 of human ACTH
 Clone: AH26
 Isotype: IgG1, kappa
 Species Reactivity: Human, Mouse and Rat. Expected to show a broad species reactivity.
 Positive Control: Normal pituitary gland or pituitary tumor.
 Specificity: This antibody is specific to Synacthen (aa 1-24 of ACTH); this antibody does not react with CLIP (aa 17-39 of ACTH). Anti-ACTH is a useful marker in classification of pituitary tumors and in the study of pituitary disease. It reacts with ACTH-producing cells (corticotrophs). It also may react with other tumors (e.g. some small cell carcinomas of the lung) causing paraneoplastic syndromes by secreting ACTH.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0265-C.1	0.1 ml
RA0265-C.5	0.5 ml

Actin, Muscle Specific (Muscle Cell Marker); Clone HHF35 (Concentrate)

Species: Mouse
 Immunogen: SDS extract of human myocardium.
 Clone: HHF35
 Isotype: IgG1, kappa
 Species Reactivity: Human, Rabbit, and Rat. Others not known.
 Positive Control: Muscle or sarcoma.
 Specificity: This antibody recognizes actin of skeletal, cardiac, and smooth muscle cells. It is not reactive with other mesenchymal cells except for myoepithelium.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0405-C.1	0.1 ml
RA0405-C.5	0.5 ml

Actin, Muscle Specific (Muscle Cell Marker); Clone MSA/953 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human actin protein.
 Clone: MSA/953
 Isotype: IgG1, kappa
 Species Reactivity: Human, Rabbit, and Rat. Others not known.
 Positive Control: Muscle or sarcoma.
 Specificity: This antibody recognizes actin of skeletal, cardiac, and smooth muscle cells. It is not reactive with other mesenchymal cells except for myoepithelium.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0406-C.1	0.1 ml
RA0406-C.5	0.5 ml

Actin, Smooth Muscle (Leiomyosarcoma Marker); Clone 1A4 (Concentrate)

Species: Mouse
 Immunogen: N-terminal decapeptide of alpha smooth muscle isoform of actin and conjugated to KLH.
 Clone: 1A4
 Isotype: IgG2a, kappa
 Species Reactivity: Human, Baboon, Monkey, Cow, Pig, Sheep, Goat, Cat, Dog, Rabbit, Mouse, Rat, Guinea Pig and Chicken.
 Others not known.
 Positive Control: Blood vessels in all tissues, smooth muscle or leiomyosarcoma.
 Specificity: This MAb is highly specific to actin from smooth muscles. Its epitope lies in the first four N-terminal amino acids. This MAb does not stain cardiac or skeletal muscle; however, it does stain myofibroblasts and myoepithelial cells. In most cases of rhabdomyosarcoma, this antibody yields negative results whereas anti-muscle specific actin and myogenin are positive. Leiomyosarcomas are positive only with anti-muscle specific actin and anti-smooth muscle actin and are negative with anti-myogenin.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0001-C.1	0.1 ml
RA0001-C.5	0.5 ml

Actin, Smooth Muscle (Leiomyosarcoma Marker); Clone ACTA2/791 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human ACTA2 protein
 Clone: ACTA2/791
 Isotype: IgG2a, kappa
 Species Reactivity: Human. Shows a broad reactivity.
 Positive Control: Blood vessels in all tissues, smooth muscle or leiomyosarcoma.
 Specificity: This MAb is highly specific to actin from smooth muscles. This MAb does not stain cardiac or skeletal muscle; however, it does stain myofibroblasts and myoepithelial cells. In most cases of rhabdomyosarcoma, this antibody yields negative results whereas anti-muscle specific actin and myogenin are positive. Leiomyosarcomas are positive only with anti-muscle specific actin and anti-smooth muscle actin and are negative with anti-myogenin.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0002-C.1	0.1 ml
RA0002-C.5	0.5 ml

AFP (Alpha Fetoprotein) (Hepatocellular/Germ Cell Tumor Marker); Clone C2 (Concentrate)

Species: Mouse.

Immunogen: Alpha fetoprotein (AFP) purified from serum of a hepatoma patient.

Clone: C2.

Isotype: IgG1, kappa.

Species Reactivity: Reacts with human and mouse. Does not react with cow, dog, and rat. Others not known.

Positive Control: Hep-G2 cells. Fetal liver or hepatocellular carcinoma.

Specificity: It recognizes an oncofetal glycoprotein with a single chain of 70kDa, which is identified as alpha fetoprotein (AFP) (ISOBM TD-2 workshop). This monoclonal antibody is highly specific to AFP and shows no cross-reaction with other oncofetal antigens or serum albumin.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0558-C.1	0.1 ml
RA0558-C.5	0.5 ml
RA0558-C1	1 ml

AFP (Alpha Fetoprotein) (Hepatocellular/Germ Cell Tumor Marker); Clone C3 (Concentrate)

Species: Mouse

Immunogen: Alpha fetoprotein (AFP) purified from serum of a hepatoma patient

Clone: C3

Isotype: IgG2a, kappa

Species Reactivity: Human, Monkey, Dog, and Pig. It does not react with Cow, Dog, Mouse, and Rat.

Positive Control: Hep-G2 cells. Fetal liver or hepatocellular carcinoma.

Specificity: This MAb is highly specific to AFP and shows no cross-reaction with other oncofetal antigens or serum albumin.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0003-C.1	0.1 ml
RA0003-C.5	0.5 ml

AFP (Alpha Fetoprotein) (Hepatocellular/Germ Cell Tumor Marker); Clone FETA/810 (Concentrate)

Species: Mouse

Immunogen: Recombinant human alpha fetoprotein

Clone: FETA/810

Isotype: IgG2a, kappa

Species Reactivity: Human. Others not known.

Positive Control: Hep-G2 cells. Fetal liver or hepatocellular carcinoma.

Specificity: This MAb recognizes an oncofetal glycoprotein with a single chain of 70kDa, which is identified as alpha fetoprotein (AFP). It is highly specific to AFP and shows no cross-reaction with other oncofetal antigens or serum albumin.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0004-C.1	0.1 ml
RA0004-C.5	0.5 ml

AFP (Alpha Fetoprotein) (Hepatocellular/Germ Cell Tumor Marker); Clone MBS-12 (Concentrate)

Species: Mouse.

Immunogen: Recombinant full-length human Alpha fetoprotein.

Clone: MBS-12.

Isotype: IgG1, kappa.

Species Reactivity: Reacts with human. Others not known.

Positive Control: Hep-G2 cells. Fetal liver or hepatocellular carcinoma.

Specificity: It recognizes an oncofetal glycoprotein with a single chain of 70kDa, which is identified as alpha fetoprotein (AFP).

This monoclonal antibody is highly specific to AFP and shows no cross-reaction with other oncofetal antigens or serum albumin.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0557-C.1	0.1 ml
RA0557-C.5	0.5 ml
RA0557-C1	1 ml

AFP (Alpha Fetoprotein) (Hepatocellular/Germ Cell Tumor Marker); Clone SPM334 (Concentrate)

Species: Mouse.

Immunogen: Alpha fetoprotein (AFP) purified from serum of a hepatoma patient.

Clone: SPM334.

Isotype: IgG2a, kappa.

Species Reactivity: Reacts with human, monkey, dog, and pig. It does not react with cow, cat, mouse, and rat.

Positive Control: Hep-G2 cells. Fetal liver or hepatocellular carcinoma.

Specificity: This monoclonal antibody recognizes an oncofetal glycoprotein with a single chain of 70kDa, which is identified as alpha fetoprotein (AFP). This monoclonal antibody is highly specific to AFP and shows no cross-reaction with other oncofetal antigens or serum albumin.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0555-C.1	0.1 ml
RA0555-C.5	0.5 ml
RA0555-C1	1 ml

Alpha-1-Antichymotrypsin (SERPINA3) (Histiocytoma Marker); Clone AACT/1451 & AACT/1452 (Concentrate)

Species: Mouse.

Immunogen: Recombinant human Antichymotrypsin (AACT) protein fragment (aa49-187) (exact sequence is proprietary).

Clone: AACT/1451 & AACT/1452

Isotype: IgG1 & IgG1

Species Reactivity: Reacts with human. Others not known.

Positive Control: HeLa Cells. Tonsil, pancreas, or histiocytoma.

Specificity: It recognizes a protein of 65-76kDa, which is identified antichymotrypsin (AACT). Acinar tumors of the pancreas and salivary gland may also exhibit AACT positivity.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0523-C.1	0.1 ml
RA0523-C.5	0.5 ml
RA0523-C1	1 ml

**Alpha-1-Antichymotrypsin (SERPINA3)
(Histiocytoma Marker); Clone AACT/1451
(Concentrate)**

Species: Mouse.
Immunogen: Recombinant human Antichymotrypsin (AACT) protein fragment (aa49-187) (exact sequence is proprietary).
Clone: AACT/1451
Isotype: IgG1.
Species Reactivity: Reacts with human. Others not known.
Positive Control: HeLa Cells. Tonsil, Pancreas or Histiocytoma.
Specificity: It recognizes a protein of 65-76kDa, which is identified antichymotrypsin (AACT). Acinar tumors of the pancreas and salivary gland may also exhibit AACT positivity.
Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0521-C.1	0.1 ml
RA0521-C.5	0.5 ml
RA0521-C1	1 ml

**Alpha-1-Antichymotrypsin (SERPINA3)
(Histiocytoma Marker); Clone AACT/1452
(Concentrate)**

Species: Mouse.
Immunogen: Recombinant human Antichymotrypsin (AACT) protein fragment (aa49-187) (exact sequence is proprietary).
Clone: AACT/1452
Isotype: IgG1
Species Reactivity: Reacts with human. Others not known.
Positive Control: HeLa Cells. Tonsil, pancreas, or histiocytoma.
Specificity: It recognizes a protein of 65-76kDa, which is identified antichymotrypsin (AACT). Acinar tumors of the pancreas and salivary gland may also exhibit AACT positivity.
Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0522-C.1	0.1 ml
RA0522-C.5	0.5 ml
RA0522-C1	1 ml

**AMACR / p504S (Prostate Cancer Marker); Clone
AMACR/2748R (Concentrate)**

Species: Rabbit
Immunogen: Recombinant human AMACR protein fragment (around aa 297-394), exact sequence is proprietary.
Clone: AMACR/2748R
Isotype: IgG
Species Reactivity: Human. Others not known.
Positive Control: HEK cells, Prostate Adenocarcinoma.
Specificity: This antibody recognizes a protein of 42kDa, which is identified as AMACR, also known as p504S.
Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0526-C.1	0.1 ml
RA0526-C.5	0.5 ml
RA0526-C1	1 ml

**AMP Deaminase, Isoform E (AMPD3) (Erythroid
Marker); Clone AMPD3/901 (Concentrate)**

Species: Mouse
Immunogen: Recombinant human AMPD3 protein
Clone: AMPD3/901
Isotype: IgG2b, kappa
Species Reactivity: Human. Others not known.
Positive Control: RBC. Fetal liver; Spleen or Placenta.
Specificity: This antibody recognizes a protein of ~90kDa, which is identified as Adenosine Monophosphate Deaminase, isoform E (AMPD3).
Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0423-C.5	0.5 ml

**Androgen Receptor (Marker of Androgen
Dependence); Clone AR441 & DHTR/882
(Concentrate)**

Species: Mouse
Immunogen: A synthetic peptide, aa 299-315, (STEDTAEYSPFKGGYTK) of human AR (AR441); Recombinant human DHTR protein (DHTR/882)
Clone: AR441 & DHTR/882
Isotype: IgG1, kappa & IgG1, kappa
Species Reactivity: Human. Does not react with mouse. Others not known
Positive Control: LNCap cells or Prostate carcinoma
Specificity: Recognizes a protein of 110kDa, which is identified as androgen receptor (AR). It reacts with full length, and the newly described A form of the receptor. It does not cross react with estrogen, progesterone, or glucocorticoid receptors.
Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0012-C.1	0.1 ml
RA0012-C.5	0.5 ml

**Androgen Receptor (Marker of Androgen
Dependence); Clone AR441 (Concentrate)**

Species: Mouse
Immunogen: A synthetic peptide, aa 299-315, (STEDTAEYSPFKGGYTK) of human AR
Clone: AR441
Isotype: IgG1, kappa
Species Reactivity: Human. Does not react with mouse. Others not known.
Positive Control: LNCap cells or Prostate carcinoma.
Specificity: Recognizes a protein of 110kDa, which is identified as androgen receptor (AR). It reacts with full length, and the newly described A form of the receptor. It does not cross react with estrogen, progesterone, or glucocorticoid receptors.
Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0010-C.1	0.1 ml
RA0010-C.5	0.5 ml

Androgen Receptor (Marker of Androgen Dependence); Clone DHTR/882 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human DHTR protein
 Clone: DHTR/882
 Isotype: IgG1, kappa
 Species Reactivity: Human. Does not react with mouse. Others not known.
 Positive Control: LNCap cells or Prostate carcinoma
 Specificity: Recognizes a protein of 110kDa, which is identified as androgen receptor (AR). It reacts with full length, and the newly described A form of the receptor. It does not cross react with estrogen, progesterone, or glucocorticoid receptors.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0011-C.1	0.1 ml
RA0011-C.5	0.5 ml

Arginase 1 (Hepatocellular Carcinoma Marker); Clone ARG1/1125 (Concentrate)

Species: Mouse
 Immunogen: Recombinant fragment (87 amino acid residues around 1-150) of human ARG1 protein.
 Clone: ARG1/1125
 Isotype: IgG2b, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: 293T cells. Hepatocellular Carcinoma (HCC)
 Specificity: This antibody recognizes a protein of 35-38kDa, which is identified as Arginase 1 (ARG1).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0457-C.1	0.1 ml
RA0457-C.5	0.5 ml
RA0457-C1	1 ml

Arginase 1 (Hepatocellular Carcinoma Marker); Clone ARG1/1126 (Concentrate)

Species: Mouse
 Immunogen: Recombinant fragment (87 amino acid residues around 1-150) of human ARG1 protein.
 Clone: ARG1/1126
 Isotype: IgG3, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: 293T cells. Hepatocellular Carcinoma (HCC).
 Specificity: This antibody recognizes a protein of 35-38kDa, which is identified as Arginase 1 (ARG1).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0458-C.1	0.1 ml
RA0458-C.5	0.5 ml
RA0458-C1	1 ml

Bax (Apoptosis Marker); Clone 2D2 (Concentrate)

Species: Mouse
 Immunogen: A synthetic peptide, aa 3-16 (Cys-GSGEQPRGGGPTSS) of human bax protein.
 Clone: 2D2
 Isotype: IgG1
 Species Reactivity: Human and Monkey. Does not react with mouse and rat. Others not known.
 Positive Control: Jurkat, K562, HL-60, or HeLa Cells. Reed-Sternberg cells in Hodgkin's lymphoma.
 Specificity: Recognizes a protein of 21kDa, identified as the Bax protein. This MAb is highly specific to Bax and shows no cross-reaction with Bcl-2 or Bcl-X protein.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0013-C.1	0.1 ml
RA0013-C.5	0.5 ml

BCL10 (MALT-Lymphoma Marker); Clone BL10/411 (Concentrate)

Species: Mouse
 Immunogen: Human BCL10 recombinant protein (epitope aa 122-168)
 Clone: BL10/411
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: WEHI-231 or Ramos cells or lymphoma.
 Specificity: This antibody labels subpopulations of normal B-cells and T-cells and is a useful tool for the sub-classification of lymphomas.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0347-C.1	0.1 ml
RA0347-C.5	0.5 ml

Bcl-2 (Apoptosis & Follicular Lymphoma Marker); Clone 100/D5 & 124 (Concentrate)

Species: Mouse
 Immunogen: A synthetic peptide, aa41-54 (GAAPAPGIFSSQPG-Cys) of human Bcl-2 (100/D5 & 124)
 Clone: 100/D5 & 124
 Isotype: IgG1, kappa (100/D5); IgG1, kappa (124)
 Species Reactivity: Human. Does not react with mouse and rat. Others not known.
 Positive Control: Jurkat, K562, HL-60, or HeLa Cells. Tonsil or follicular lymphomas.
 Specificity: This antibody recognizes a protein of 25-26kDa, identified as the Bcl-2 alpha oncoprotein. It shows no cross-reaction with Bcl-x or Bax protein.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0017-C.1	0.1 ml
RA0017-C.5	0.5 ml

Bcl-2 (Apoptosis & Follicular Lymphoma Marker); Clone 100/D5 & BCL2/796

Species: Mouse
 Immunogen: A synthetic peptide, aa41-54 (GAAPAPGIFSSQPG-Cys) of human Bcl-2 protein (100/D5); Recombinant human Bcl-2 protein (BCL2/796).
 Clone: 100/D5 & BCL2/796
 Isotype: IgG1, kappa (100/D5); IgG1, kappa (BCL2/796).
 Species Reactivity: Human. Others not known.
 Positive Control: Jurkat, K562, HL-60, or HeLa Cells. Tonsil or follicular lymphomas.
 Specificity: This antibody recognizes a protein of 25-26kDa, identified as the Bcl-2 alpha oncoprotein. It shows no cross-reaction with Bcl-x or Bax protein.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0020-C.1	0.1 ml
RA0020-C.5	0.5 ml

Bcl-2 (Apoptosis & Follicular Lymphoma Marker); Clone BCL2/782 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human Bcl-2 protein
 Clone: BCL2/782
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Jurkat, K562, HL-60, or HeLa Cells. Tonsil or follicular lymphomas.
 Specificity: This antibody recognizes a protein of 25-26kDa, identified as the Bcl-2 alpha oncoprotein. It shows no cross-reaction with Bcl-x or Bax protein.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0018-C.1	0.1 ml
RA0018-C.5	0.5 ml

Bcl-2 (Apoptosis & Follicular Lymphoma Marker); Clone BCL2/796 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human Bcl-2 protein
 Clone: BCL2/796
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Jurkat, K562, HL-60, or HeLa Cells. Tonsil or follicular lymphomas.
 Specificity: This antibody recognizes a protein of 25-26kDa, identified as the Bcl-2 alpha oncoprotein. It shows no cross-reaction with Bcl-x or Bax protein.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0019-C.1	0.1 ml
RA0019-C.5	0.5 ml

Bcl-2 (Apoptosis and Follicular Lymphoma Marker); Clone 100/D5 (Concentrate)

Species: Mouse
 Immunogen: A synthetic peptide, aa41-54 (GAAPAPGIFSSQPG-Cys) of human Bcl-2 protein.
 Clone: 100/D5
 Isotype: IgG1, kappa
 Species Reactivity: Human. Does not react with Mouse and Rat. Others not known.
 Positive Control: Jurkat, K562, HL-60, or HeLa Cells. Tonsil or follicular lymphomas.
 Specificity: This antibody recognizes a protein of 25-26kDa, identified as the Bcl-2 alpha oncoprotein. It shows no cross-reaction with Bcl-x or Bax protein.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0015-C.1	0.1 ml
RA0015-C.5	0.5 ml

Bcl-2 (Apoptosis and Follicular Lymphoma Marker); Clone 124 (Concentrate)

Species: Mouse
 Immunogen: A synthetic peptide, aa41-54 (GAAPAPGIFSSQPG-Cys) of human Bcl-2 protein
 Clone: 124
 Isotype: IgG1, kappa
 Species Reactivity: Human. Does not react with Mouse and Rat. Others not known.
 Positive Control: Jurkat, K562, HL-60, or HeLa Cells. Tonsil or follicular lymphomas.
 Specificity: This antibody recognizes a protein of 25-26kDa, identified as the Bcl-2 alpha oncoprotein. It shows no cross-reaction with Bcl-x or Bax protein.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0016-C.1	0.1 ml
RA0016-C.5	0.5 ml

Bcl-X (Apoptosis Marker); Clone 2H12 (Concentrate)

Species: Mouse
 Immunogen: A synthetic peptide, aa 3-14 (Cys-QSNRELVVDFLS) of human Bcl-X protein
 Clone: 2H12
 Isotype: IgG2a
 Species Reactivity: Human, Mouse, Rat, and Pig. Others not tested.
 Positive Control: Jurkat, K562, HL-60, or HeLa Cells. Reed-Sternberg cells in Hodgkin's lymphoma.
 Specificity: Recognizes a protein of 27kDa, identified as the Bcl-X protein. This MAb shows no cross-reaction with Bcl-2 or Bax protein. This MAb reacts with both Bcl-XS and Bcl-XL proteins.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0022-C.1	0.1 ml
RA0022-C.5	0.5 ml

Bcl-X (Apoptosis Marker); Clone BX006 & 2H12 (Concentrate)

Species: Mouse
 Immunogen: A synthetic peptide, aa 3-14 (Cys-QSNRELVVDFLS) of human Bcl-X protein
 Clone: BX006 & 2H12
 Isotype: IgG2a (BX006) & IgG2a (2H12)
 Species Reactivity: Human, Mouse, Rat, and Pig. Others not tested.
 Positive Control: Jurkat, K562, HL-60, or HeLa Cells. Reed-Sternberg cells in Hodgkin's lymphoma.
 Specificity: Recognizes a protein of 27kDa, identified as the Bcl-X protein. This MAb shows no cross-reaction with Bcl-2 or Bax protein. This MAb reacts with both Bcl-XS and Bcl-XL proteins.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0023-C.1	0.1 ml
RA0023-C.5	0.5 ml

Bcl-X (Apoptosis Marker); Clone BX006 (Concentrate)

Species: Mouse
 Immunogen: A synthetic peptide, aa 3-14 (Cys-QSNRELVVDFLS) of human Bcl-X protein.
 Clone: BX006
 Isotype: IgG2a
 Species Reactivity: Human, Mouse, Rat, and Pig. Others not tested.
 Positive Control: Jurkat, K562, HL-60, or HeLa Cells. Reed-Sternberg cells in Hodgkin's lymphoma.
 Specificity: Recognizes a protein of 27kDa, identified as the Bcl-X protein. This MAb shows no cross-reaction with Bcl-2 or Bax protein. This MAb reacts with both Bcl-XS and Bcl-XL proteins.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0021-C.1	0.1 ml
RA0021-C.5	0.5 ml

Beta-2 Microglobulin (Renal Failure & Tumor Marker); Clone B2M/1118 (Concentrate)

Species: Mouse
 Immunogen: Full length recombinant human B2M protein
 Clone: B2M/1118
 Isotype: IgG2b, kappa
 Species Reactivity: Human and non-human primates. Others not known.
 Positive Control: HL-60 or HeLa cells. Melanomas and Lymphoma. Carcinoma of Stomach, Cervix, Endometrial, Kidney or Colon.
 Specificity: This antibody is specific for the 12kDa protein known as Beta-2 Microglobulin.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0424-C.5	0.5 ml

Beta-2 Microglobulin (Renal Failure & Tumor Marker); Clone B2M/961 (Concentrate)

Species: Mouse
 Immunogen: Full length recombinant human B2M protein
 Clone: B2M/961
 Isotype: IgG2b, kappa
 Species Reactivity: Human and non-human primates. Others not known.
 Positive Control: HL-60 or HeLa cells. Melanomas and Lymphoma. Carcinoma of Stomach, Cervix, Endometrial, Kidney or Colon.
 Specificity: This antibody recognizes a protein of 12kDa, identified as Beta-2 Microglobulin.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0425-C.1	0.1 ml
RA0425-C.5	0.5 ml

Bromodeoxyuridine (BrdU) (Proliferation Marker); Clone 85-2C8 (Concentrate)

Species: Mouse
 Immunogen: Bromodeoxyuridine (BrdU) conjugated to hemocyanine (isolated from *Helix pomatia*)
 Clone: 85-2C8
 Isotype: IgG1
 Species Reactivity: All species
 Positive Control: Cells grown in presence of BrdU or tissues from experimental animals injected with BrdU.
 Specificity: This antibody reacts with Bromodeoxyuridine (BrdU) in single stranded DNA (produced by partial denaturation of double stranded DNA), BrdU coupled to a protein carrier, as well as free BrdU.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0378-C.1	0.1 ml
RA0378-C.5	0.5 ml

Bromodeoxyuridine (BrdU) (Proliferation Marker); Clone BRD.3 (Concentrate)

Species: Mouse
 Immunogen: Bromodeoxyuridine (BrdU) conjugated to BSA
 Clone: BRD.3
 Isotype: IgG1
 Species Reactivity: All species
 Positive Control: Cells grown in presence of BrdU or tissues from experimental animals injected with BrdU
 Specificity: This antibody reacts with Bromodeoxyuridine (BrdU) in single stranded DNA (produced by partial denaturation of double stranded DNA), BrdU coupled to a protein carrier, as well as free BrdU.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0377-C.1	0.1 ml
RA0377-C.5	0.5 ml

**Bromodeoxyuridine (BrdU) (Proliferation Marker);
Clone BRD469 (Concentrate)**

Species: Mouse
 Immunogen: Bromodeoxyuridine (BrdU) conjugated to KLH
 Clone: BRD469
 Isotype: IgG1
 Species Reactivity: All species
 Positive Control: Cells grown in presence of BrdU or tissues from experimental animals injected with BrdU
 Specificity: This antibody reacts with Bromodeoxyuridine (BrdU) in single stranded DNA (produced by partial denaturation of double stranded DNA), BrdU coupled to a protein carrier, as well as free BrdU.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0372-C.1	0.1 ml
RA0372-C.5	0.5 ml

**Bromodeoxyuridine (BrdU) (Proliferation Marker);
Clone BRD494 (Concentrate)**

Species: Mouse
 Immunogen: Bromodeoxyuridine (BrdU) conjugated to KLH
 Clone: BRD494
 Isotype: IgG1
 Species Reactivity: All species
 Positive Control: Cells grown in presence of BrdU or tissues from experimental animals injected with BrdU
 Specificity: This antibody reacts with Bromodeoxyuridine (BrdU) in single stranded DNA (produced by partial denaturation of double stranded DNA), BrdU coupled to a protein carrier, as well as free BrdU.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0374-C.1	0.1 ml
RA0374-C.5	0.5 ml

**Bromodeoxyuridine (BrdU) (Proliferation Marker);
Clone BU20a (Concentrate)**

Species: Mouse
 Immunogen: Bromodeoxyuridine (BrdU) conjugated to KLH
 Clone: BU20a
 Isotype: IgG1
 Species Reactivity: All species
 Positive Control: Cells grown in presence of BrdU or tissues from experimental animals injected with BrdU
 Specificity: This antibody reacts with Bromodeoxyuridine (BrdU) in single stranded DNA (produced by partial denaturation of double stranded DNA), BrdU coupled to a protein carrier, as well as free BrdU.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0375-C.1	0.1 ml
RA0375-C.5	0.5 ml

**Bromodeoxyuridine (BrdU) (Proliferation Marker);
Clone MoBu-1 (Concentrate)**

Species: Mouse
 Immunogen: Bromodeoxyuridine (BrdU) conjugated to hemocyanine (isolated from *Helix pomatia*)
 Clone: MoBu-1
 Isotype: IgG1
 Species Reactivity: All species
 Positive Control: Cells grown in presence of BrdU or tissues from experimental animals injected with BrdU
 Specificity: This antibody reacts with Bromodeoxyuridine (BrdU) in single stranded DNA (produced by partial denaturation of double stranded DNA), BrdU coupled to a protein carrier, as well as free BrdU.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0376-C.1	0.1 ml
RA0376-C.5	0.5 ml

**CA19-9/Sialyl Lewis a (GI Tumor Marker); Clone
121SLE (Concentrate)**

Species: Mouse
 Immunogen: Precipitin lines obtained after immuno-diffusion using monoclonal antibody 116-NS-19-9 and mucins isolated from an ovarian cyst of a Lewis A+B- patient (0Le).
 Clone: 121SLE
 Isotype: IgM, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Stomach
 Specificity: CA19-9, a carbohydrate epitope expressed on a high MW (>400kDa) mucin glycoprotein, is a sialyl Lewis a structure which is synthesized from type 1 blood group precursor chains and is present in individuals expressing the Lewis a and/or Lewis b blood group antigens.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0397-C.1	0.1 ml
RA0397-C.5	0.5 ml

**Caldesmon, HMW (h-Caldesmon) (Smooth Muscle
Marker); Clone CALD1/820 & h-CALD (Concentrate)**

Species: Mouse
 Immunogen: Recombinant human CALD1 protein (CALD1/820); Crude human uterus extract (h-CALD)
 Clone: CALD1/820 & h-CALD
 Isotype: IgG1, kappa (CALD1/820); IgG1, kappa (h-CALD)
 Species Reactivity: Human. Others not known.
 Positive Control: Uterus
 Specificity: Recognizes a protein of 150kDa, which is identified as the high molecular weight variant of Caldesmon. This MAb recognizes only the 150kDa variant (h-Caldesmon) in Western blots of human aortic media extracts and is unreactive with fibroblast extracts from cultivated human foreskin.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0030-C.1	0.1 ml
RA0030-C.5	0.5 ml

Caldesmon, HMW (h-Caldesmon) (Smooth Muscle Marker); Clone CALD1/820 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human CALD1 protein
 Clone: CALD1/820
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Uterus
 Specificity: Recognizes a protein of 150kDa, which is identified as the high molecular weight variant of Caldesmon. This MAb recognizes only the 150kDa variant (h-Caldesmon) in Western blots of human aortic media extracts and is unreactive with fibroblast extracts from cultivated human foreskin.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0029-C.1	0.1 ml
RA0029-C.5	0.5 ml

Caldesmon, HMW (h-Caldesmon) (Smooth Muscle Marker); Clone h-CALD (Concentrate)

Species: Mouse
 Immunogen: Crude human uterus extract
 Clone: h-CALD
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Uterus
 Specificity: Recognizes a protein of 150kDa, which is identified as the high molecular weight variant of Caldesmon. This MAb recognizes only the 150kDa variant (h-caldesmon) in Western blots of human aortic media extracts and is unreactive with fibroblast extracts from cultivated human foreskin.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0028-C.1	0.1 ml
RA0028-C.5	0.5 ml

Calgranulin B / MRP14 / (Macrophage Marker); Clone CAGB/426 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human CAGB protein
 Clone: CAGB/426
 Isotype: IgM, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Tonsil, Lymph Node or Spleen
 Cellular Localization: Cytoplasmic
 Specificity: This antibody identifies a 12-14kDa doublet of Calgranulin A/B (also known as S100A8/A9 or MRP-8/14) expressed by granulocytes, monocytes and by tissue macrophages. This antibody reacts with neutrophils, monocytes, macrophages, and squamous mucosal epithelia.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA1065-C.1	0.1 ml
RA1065-C.5	0.5 ml
RA1065-C1	1 ml

Calponin-1 (Smooth Muscle Marker); Clone CALP (Concentrate)

Species: Mouse
 Immunogen: Crude human uterus extract
 Clone: CALP
 Isotype: IgG1, kappa
 Species Reactivity: Human and Rat. Others not known.
 Positive Control: Myoepithelial cells in breast ducts.
 Specificity: In Western blotting, this antibody reacts with only the 34kDa form of calponin in extracts of human aortic medial smooth muscle and is unreactive with fibroblast extracts of cultivated human foreskin.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0099-C.1	0.1 ml
RA0099-C.5	0.5 ml

Calponin-1 (Smooth Muscle Marker); Clone CNN1/832 & CALP (Concentrate)

Species: Mouse
 Immunogen: Recombinant human CNN1 protein (CNN1/832); Crude human uterus extract (CALP)
 Clone: CNN1/832 & CALP
 Isotype: IgG1, kappa (CNN1/832); IgG1, kappa (CALP)
 Species Reactivity: Human and Rat. Others not known.
 Positive Control: Myoepithelial cells in breast ducts.
 Specificity: In Western blotting, this antibody reacts with only the 34kDa form of calponin in extracts of human aortic medial smooth muscle and is unreactive with fibroblast extracts of cultivated human foreskin.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0101-C.1	0.1 ml
RA0101-C.5	0.5 ml

Calponin-1 (Smooth Muscle Marker); Clone CNN1/832 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human CNN1 protein
 Clone: CNN1/832
 Isotype: IgG1, kappa
 Species Reactivity: Human and Rat. Others not known.
 Positive Control: Myoepithelial cells in breast ducts.
 Specificity: In Western blotting, this antibody reacts with only the 34kDa form of calponin in extracts of human aortic medial smooth muscle and is unreactive with fibroblast extracts of cultivated human foreskin.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0100-C.1	0.1 ml
RA0100-C.5	0.5 ml

Calponin-1 (Smooth Muscle Marker); Clone SPM169 (Concentrate)

Species: Mouse.
 Immunogen: Crude human uterus extract.
 Clone: SPM169
 Isotype: IgG1, kappa.
 Species Reactivity: Reacts with human and rat. Others not known.
 Positive Control: Myoepithelial cells in breast ducts.
 Specificity: In Western blotting, this monoclonal antibody reacts with only the 34kDa form of calponin in extracts of human aortic medial smooth muscle and is unreactive with fibroblast extracts of cultivated human foreskin.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0532-C.1	0.1 ml
RA0532-C.5	0.5 ml
RA0532-C1	1 ml

Calreticulin Mutation / CALR; Clone CAL2 (Concentrate)

Species: Mouse
 Immunogen: C-neoterminal of mutated CALR.
 Clone: CAL2
 Isotype: IgG2a
 Species Reactivity: Human
 Positive Control: Megakaryocytes from CALR mutated PMNs.
 Specificity: Human CALR protein expressed by all types of Exon 9 CALR mutations (deletion/insertion in 19p 13.3-13.2 of).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
DIA-CAL-250	0.25 ml

Carcinoembryonic Antigen (CEA) / CD66 ; Clone SPM506 (Concentrate)

Species: Mouse
 Immunogen: Human colon carcinoma extract
 Clone: SPM506
 Isotype: IgG1, kappa
 Species Reactivity: Human and Monkey. Others not known.
 Positive Control: MCF7 or 293T cells. Colon carcinoma.
 Specificity: This antibody recognizes proteins of 80-200kDa, identified as different members of the CEA family. This MAb does not react with nonspecific cross-reacting antigen (NCA) and with human polymorphonuclear leucocytes. It shows no reaction with a variety of normal tissues and is suitable for staining of formalin/paraffin tissues.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0489-C.1	0.1 ml
RA0489-C.5	0.5 ml
RA0489-C1	1 ml

Carcinoembryonic Antigen (CEA) / CD66 ; Clone SPM541 (Concentrate)

Species: Mouse
 Immunogen: Human colon carcinoma extract
 Clone: SPM541
 Isotype: IgG1, kappa
 Species Reactivity: Human and Monkey. Others not known.
 Positive Control: MCF7 or 293T cells. Colon carcinoma.
 Specificity: This antibody recognizes proteins of 80-200kDa, identified as different members of CEA family. This MAb does not react with nonspecific cross-reacting antigen (NCA) and with human polymorphonuclear leucocytes. It shows no reaction with a variety of normal tissues and is suitable for staining of formalin/paraffin tissues.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0488-C.1	0.1 ml
RA0488-C.5	0.5 ml
RA0488-C1	1 ml

Carcinoembryonic Antigen (CEA) / CD66; Clone C66/1009 (Concentrate)

Species: Mouse
 Immunogen: Human recombinant CEA protein
 Clone: C66/1009
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: MCF7 or 293T cells. Colon carcinoma.
 Specificity: This antibody recognizes proteins of 80-200kDa, identified as different members of the CEA family. This antibody does not react with nonspecific cross-reacting antigen (NCA) and with human polymorphonuclear leucocytes. It shows no reaction with a variety of normal tissues and is suitable for staining of formalin/paraffin tissues.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0432-C.1	0.1 ml
RA0432-C.5	0.5 ml
RA0432-C1	1 ml

Carcinoembryonic Antigen (CEA) / CD66; Clone C66/1260 (Concentrate)

Species: Mouse
 Immunogen: Purified human CEA protein
 Clone: C66/1260
 Isotype: IgG2b, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: MCF7 or 293T cells. Colon carcinoma.
 Specificity: This antibody recognizes proteins of 80-200kDa, identified as different members of CEA family. This MAb reacts with nonspecific cross-reacting antigen (NCA). It shows no reaction with a variety of normal tissues and is suitable for staining of formalin/paraffin tissues.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0481-C.1	0.1 ml
RA0481-C.5	0.5 ml
RA0481-C1	1 ml

Carcinoembryonic Antigen (CEA) / CD66; Clone C66/195 (Concentrate)

Species: Mouse
 Immunogen: Recombinant full-length human CEA protein
 Clone: C66/195
 Isotype: IgG1, kappa
 Species Reactivity: Human and Monkey. Others not known.
 Positive Control: MCF7 or 293T cells. Colon carcinoma.
 Specificity: This antibody recognizes proteins of 80-200kDa, identified as different members of CEA family. This MAb reacts with nonspecific cross-reacting antigen (NCA) and shows a cross-reaction with human polymorphonuclear leucocytes. It shows no reaction with a variety of normal tissues and is suitable for staining of formalin/paraffin tissues.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0485-C.1	0.1 ml
RA0485-C.5	0.5 ml
RA0485-C1	1 ml

Carcinoembryonic Antigen (CEA) / CD66; Clone C66/261 (Concentrate)

Species: Mouse
 Immunogen: Human recombinant CEA protein
 Clone: C66/261
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: MCF7 or 293T cells. Colon carcinoma.
 Specificity: This antibody recognizes proteins of 80-200kDa, identified as different members of the CEA family. This antibody does not react with nonspecific cross-reacting antigen (NCA) and with human polymorphonuclear leucocytes. It shows no reaction with a variety of normal tissues and is suitable for staining of formalin/paraffin tissues.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0083-C.1	0.1 ml
RA0083-C.5	0.5 ml

Carcinoembryonic Antigen (CEA) / CD66; Clone CEA31 (Concentrate)

Species: Mouse
 Immunogen: Human colon carcinoma extract
 Clone: CEA31
 Isotype: IgG1, kappa
 Species Reactivity: Human and Monkey. Others not known.
 Positive Control: MCF7 or 293T cells. Colon carcinoma.
 Specificity: This antibody recognizes proteins of 80-200kDa, identified as different members of the CEA family. This antibody does not react with nonspecific cross-reacting antigen (NCA) and with human polymorphonuclear leucocytes. It shows no reaction with a variety of normal tissues and is suitable for staining of formalin/paraffin tissues.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0084-C.1	0.1 ml
RA0084-C.5	0.5 ml

Carcinoembryonic Antigen (CEA) / CD66; Clone COL-1 (Concentrate)

Species: Mouse
 Immunogen: Human colon carcinoma extract
 Clone: COL-1
 Isotype: IgG2a, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: MCF7 or 293T cells. Colon carcinoma.
 Specificity: This antibody recognizes proteins of 80-200kDa, identified as different members of the CEA family. This antibody does not react with nonspecific cross-reacting antigen (NCA) and with human polymorphonuclear leucocytes. It shows no reaction with a variety of normal tissues and is suitable for staining of formalin/paraffin tissues.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0082-C.1	0.1 ml
RA0082-C.5	0.5 ml

Carcinoembryonic Antigen (CEA) / CD66; Clone COL-1, CEA31 & C66/261 (Concentrate)

Species: Mouse
 Immunogen: Human colon carcinoma extract (COL-1 & CEA31); CEA recombinant protein (C66/261)
 Clone: COL-1, CEA31 & C66/261
 Isotype: IgG2a (COL-1); IgG1 (CEA31 & C66/261)
 Species Reactivity: Human. Others not known.
 Positive Control: MCF7 or 293T cells. Colon carcinoma.
 Specificity: This monoclonal antibody recognizes proteins of 80-200kDa, identified as different members of the CEA family. It does not react with nonspecific cross-reacting antigen (NCA) and with human polymorphonuclear leucocytes. It shows no reaction with a variety of normal tissues and is suitable for staining of formalin/paraffin tissues.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0085-C.1	0.1 ml
RA0085-C.5	0.5 ml

Carcinoembryonic Antigen (CEA) / CD66; Clone SPM330 (Concentrate)

Species: Mouse
 Immunogen: Purified human CEA protein
 Clone: SPM330
 Isotype: IgG1, kappa
 Species Reactivity: Human and Monkey. Others not known.
 Positive Control: MCF7 or 293T cells. Colon carcinoma
 Specificity: This antibody recognizes proteins of 80-200kDa, identified as different members of CEA family, and is re-expressed in increased amounts in intestinal carcinomas and several other tumors. This MAb reacts with nonspecific cross-reacting antigen (NCA) and shows a cross-reaction with human polymorphonuclear leucocytes. It shows no reaction with a variety of normal tissues and is suitable for staining of formalin/paraffin tissues.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0486-C.1	0.1 ml
RA0486-C.5	0.5 ml
RA0486-C1	1 ml

Carcinoembryonic Antigen (CEA) / CD66; Clone SPM551 (Concentrate)

Species: Mouse
 Immunogen: Human recombinant CEA protein
 Clone: SPM551
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: MCF7 or 293T cells. Colon Carcinoma.
 Specificity: This antibody recognizes proteins of 80-200kDa, identified as different members of CEA family. This MAb does not react with nonspecific cross-reacting antigen (NCA) and with human polymorphonuclear leucocytes. It shows no reaction with a variety of normal tissues and is suitable for staining of formalin/paraffin tissues.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0487-C.1	0.1 ml
RA0487-C.5	0.5 ml
RA0487-C1	1 ml

Carcinoembryonic Antigen (CEA) / CD66; Clone SPM584 (Concentrate)

Species: Mouse
 Immunogen: Human colon carcinoma extract
 Clone: SPM584
 Isotype: IgG2a, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: MCF7 or 293T cells. Colon carcinoma
 Specificity: This antibody recognizes proteins of 80-200kDa, identified as different members of CEA family. This MAb does not react with nonspecific cross-reacting antigen (NCA) and with human polymorphonuclear leucocytes. It shows no reaction with a variety of normal tissues and is suitable for staining of formalin/paraffin tissues.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0484-C.1	0.1 ml
RA0484-C.5	0.5 ml
RA0484-C1	1 ml

Carcinoembryonic Antigen, pan (CEA) / CD66; Clone Cocktail (Concentrate)

Species: Mouse
 Immunogen: Recombinant full-length human CEA protein (C66/195; C66/261; C66/1009 & C66/1030)
 Clone: C66/195 & C66/1009 & C66/1030
 Isotype: IgGs
 Species Reactivity: Human. Others not known.
 Positive Control: MCF7 or 293T cells. Colon carcinoma.
 Specificity: This antibody recognizes proteins of 80-200kDa, identified as different members of CEA family. This antibody does not react with nonspecific cross-reacting antigen (NCA) and with human polymorphonuclear leucocytes. It shows no reaction with a variety of normal tissues and is suitable for staining of formalin/paraffin tissues.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0491-C.1	0.1 ml
RA0491-C.5	0.5 ml
RA0491-C1	1 ml

Catenin, beta (p120); Clone 15B8 (Concentrate)

Species: Mouse.
 Immunogen: Recombinant chicken beta-catenin.
 Clone: 15B8
 Isotype: IgG1, kappa.
 Species Reactivity: Reacts with human, mouse, rat, cow, dog, and chicken. Others not known.
 Positive Control: HeLa or MCF-7 cells. Breast carcinoma.
 Specificity: Recognizes a 92kDa protein known as beta-Catenin.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0544-C.1	0.1 ml
RA0544-C.5	0.5 ml
RA0544-C1	1 ml

Catenin, beta (p120); Clone 5H10 (Concentrate)

Species: Mouse.
 Immunogen: Fusion protein consisting of the maltose binding protein fused to a 100 amino acid segment of the C-terminus of chicken beta-Catenin.
 Clone: 5H10
 Isotype: IgG1, kappa.
 Species Reactivity: Reacts with human, mouse, and chicken. Others not known.
 Positive Control: HeLa or MCF-7 cells. Breast carcinoma.
 Specificity: Recognizes a 92kDa protein which is identified as beta-Catenin.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0545-C.1	0.1 ml
RA0545-C.5	0.5 ml
RA0545-C1	1 ml

Catenin, beta (p120); Clone 6F9 (Concentrate)

Species: Mouse.
 Immunogen: Recombinant chicken beta-catenin.
 Clone: 6F9
 Isotype: IgG1, kappa.
 Species Reactivity: Reacts with human, cow, dog, and chicken. Others not known.
 Positive Control: HeLa or MCF-7 cells. Breast carcinoma.
 Specificity: This monoclonal antibody recognizes a protein of 92kDa, which is identified as beta-catenin. It shows no cross-reaction with gamma-catenin (also known as plakoglobin).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0546-C.1	0.1 ml
RA0546-C.5	0.5 ml
RA0546-C1	1 ml

Catenin, beta (p120); Clone CTNNB1/1507 (Concentrate)

Species: Mouse.
 Immunogen: Recombinant human full-length beta-Catenin (p120) protein fragment.
 Clone: CTNNB1/1507.
 Isotype: IgG1, kappa.
 Species Reactivity: Reacts with human, mouse, and rat. Others not known.
 Positive Control: HeLa or MCF-7 cells. Breast carcinoma.
 Specificity: Recognizes a 92kDa protein known as beta-Catenin.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0548-C.1	0.1 ml
RA0548-C.5	0.5 ml
RA0548-C1	1 ml

Catenin, beta (p120); Clone CTNNB1/1508 (Concentrate)

Species: Mouse.
 Immunogen: Recombinant human full-length beta-Catenin (p120) protein fragment.
 Clone: CTNNB1/1508.
 Isotype: IgG1, kappa.
 Species Reactivity: Reacts with human, mouse, and rat. Others not known.
 Positive Control: HeLa or MCF-7 cells. Breast carcinoma.
 Specificity: Recognizes a protein of 92kDa known as beta-Catenin.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0549-C.1	0.1 ml
RA0549-C.5	0.5 ml
RA0549-C1	1 ml

Catenin, beta (p120); Clone CTNNB1/1509 (Concentrate)

Species: Mouse.
 Immunogen: Recombinant human full-length beta-Catenin (p120) protein fragment.
 Clone: CTNNB1/1509.
 Isotype: IgG1, kappa.
 Species Reactivity: Reacts with human, mouse, and rat. Others not known.
 Positive Control: HeLa or MCF-7 cells. Breast carcinoma.
 Specificity: Recognizes a protein of 92kDa known as beta-Catenin.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0550-C.1	0.1 ml
RA0550-C.5	0.5 ml
RA0550-C1	1 ml

CD10 (Membrane Metalloendopeptidase); Clone 56C6 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human CD10 protein fragment.
 Clone: 56C6
 Isotype: IgG1, kappa
 Species Reactivity: Human, Rat. Others not tested.
 Positive Control: Kidney, small intestine, or tonsil.
 Specificity: Recognizes a 100kDa glycoprotein, identified as CD10, also known as Common Acute Lymphatic Leukemia Antigen (CALLA).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0461-C.1	0.1 ml
RA0461-C.5	0.5 ml
RA0461-C1	1 ml

CD100 (Semaphorin-4D); Clone 133-1C6 (Concentrate)

Species: Mouse
 Immunogen: PHA stimulated human peripheral blood lymphocytes.
 Clone: 133-1C6
 Isotype: IgM, kappa
 Species Reactivity: Human and Baboon. Does not react with horse. Others not-tested.
 Positive Control: Daudi, Raji, HUT-78, Kg1a, U937, and human lymphocytes. Human tonsil and lymph node.
 Specificity: Recognizes a homodimeric protein comprised of 50kDa subunits, identified as CD100 (Workshop VI; Code N-L026).
 Status:RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0492-C.1	0.1 ml
RA0492-C.5	0.5 ml
RA0492-C1	1 ml

CD100 (Semaphorin-4D); Clone A8 (Concentrate)

Species: Mouse
 Immunogen: PHA stimulated human peripheral blood lymphocytes
 Clone: A8
 Isotype: IgG1, kappa
 Species Reactivity: Human, Monkey and Mouse. Others not-tested.
 Positive Control: Daudi, Raji, HUT-78, Kg1a, U937, and human lymphocytes. Human tonsils and lymph nodes.
 Specificity: Recognizes a homodimeric protein comprised of 50kDa subunits, identified as CD100.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0493-C.1	0.1 ml
RA0493-C.5	0.5 ml
RA0493-C1	1 ml

CD106 / VCAM1 (Activated Endothelial Cell Marker); Clone 1.4C3 (Concentrate)

Species: Mouse
 Immunogen: Stimulated human umbilical vein endothelial cells (HUVEC)
 Clone: 1.4C3
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Human placenta or tonsil.
 Specificity: Recognizes a protein of 110kDa, identified as CD106 (also known as vascular cell adhesion molecule-1 (VCAM-1) and INCAM-100).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0335-C.1	0.1 ml
RA0335-C.5	0.5 ml

CD106 / VCAM1 (Activated Endothelial Cell Marker); Clone VCAM1/843 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human VCAM1 protein
 Clone: VCAM1/843
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Human placenta or tonsil.
 Specificity: Recognizes a protein of 110kDa, identified as CD106 (also known as vascular cell adhesion molecule-1 (VCAM-1) and INCAM-100).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0336-C.1	0.1 ml
RA0336-C.5	0.5 ml

CD117/c-Kit (Marker for Gastrointestinal Stromal Tumors); Clone C117/370 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human CD117 protein
 Clone: C117/370
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Gastrointestinal Stromal Tumor (GIST) or testicular germ cell tumor. Melanocytes in the basal layer of the epidermis and mast cells in the dermis of normal skin.
 Specificity: This antibody recognizes a protein of 145kDa, identified as CD117/p145kit.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0168-C.1	0.1 ml
RA0168-C.5	0.5 ml

CD147 / EMMPRIN / Basigin (BSG); Clone BSG/963 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human Basigin (BSG) or CD147 protein
 Clone: BSG/963
 Isotype: IgG1
 Species Reactivity: Human. Others not known.
 Positive Control: HSB2 cells. Renal Cell, Colon or Testicular carcinoma.
 Specificity: This antibody recognizes an extracellular epitope of human CD147.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0428-C.1	0.1 ml
RA0428-C.5	0.5 ml
RA0428-C1	1 ml

CD15 / FUT4 (Reed-Sternberg Cell Marker); Clone FUT4/815 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human FUT4 protein
 Clone: FUT4/815
 Isotype: IgM, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: U937 cells, Reed-Sternberg's cells in Hodgkin's lymphoma.
 Specificity: This antibody reacts with a 220 kDa protein, CD15 / FUT4 expressed on Reed-Sternberg cells.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0120-C.1	0.1 ml
RA0120-C.5	0.5 ml

CD15 / FUT4 (Reed-Sternberg Cell Marker); Clone Leu-M1 (MMA) (Concentrate)

Species: Mouse
 Immunogen: U937 histiocytic cell line
 Clone: Leu-M1 (MMA)
 Isotype: IgM, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: U937 cells, Reed-Sternberg's cells in Hodgkin's lymphoma.
 Specificity: This antibody reacts with a 220 kDa protein, CD15 / FUT4 expressed on Reed-Sternberg cells.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0119-C.1	0.1 ml
RA0119-C.5	0.5 ml

CD1a / HTA1 (Mature Langerhans Cells Marker); Clone C1A/711 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human CD1a protein
 Clone: C1A/711
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: MOLT-4 cells. Paracortex in a tonsil or a reactive lymph node.
 Specificity: Anti-CD1a labels Langerhans cell histiocytosis (Histiocytosis X), extranodal histiocytic sarcoma, a subset of T-lymphoblastic lymphoma/leukemia, and interdigitating dendritic cell sarcoma of the lymph node.
 Status: RUO

Catalog Number	Volume
RA0032-C.1	0.1 ml
RA0032-C.5	0.5 ml

CD1a / HTA1 (Mature Langerhans Cells Marker); Clone O10 & C1A/711 (Concentrate)

Species: Mouse
 Immunogen: Human thymus cells (O10); Recombinant human CD1a protein (C1A/711)
 Clone: O10 & C1A/711
 Isotype: IgG1, kappa (O10) & IgG1, kappa (C1A/711)
 Species Reactivity: Human. Others not known.
 Positive Control: MOLT-4 cells. Paracortex in a tonsil or a reactive lymph node.
 Specificity: Anti-CD1a labels Langerhans cell histiocytosis (Histiocytosis X), extranodal histiocytic sarcoma, a subset of T-lymphoblastic lymphoma/leukemia, and interdigitating dendritic cell sarcoma of the lymph node.
 Status: RUO

Catalog Number	Volume
RA0033-C.1	0.1 ml
RA0033-C.5	0.5 ml

CD1a / HTA1 (Mature Langerhans Cells Marker); Clone O10 (Concentrate)

Species: Mouse
 Immunogen: Human thymus cells
 Clone: O10
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: MOLT-4 cells. Paracortex in a tonsil or a reactive lymph node.
 Specificity: Anti-CD1a labels Langerhans cell histiocytosis (Histiocytosis X), extranodal histiocytic sarcoma, a subset of T-lymphoblastic lymphoma/leukemia, and interdigitating dendritic cell sarcoma of the lymph node.
 Status: RUO

Catalog Number	Volume
RA0031-C.1	0.1 ml
RA0031-C.5	0.5 ml

CD20 / MS4A1 (B-Cell Marker); Clone IGEL/773 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human MS4A1 protein
 Clone: IGEL/773
 Isotype: IgG2a, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Daudi, Raji, and U266, and human lymphocytes, lymph nodes and tonsils.
 Specificity: Recognizes a protein of 30-33kDa, which is identified as CD20.
 Status: RUO

Catalog Number	Volume
RA0046-C.1	0.1 ml
RA0046-C.5	0.5 ml

CD20 / MS4A1 (B-Cell Marker); Clone L26 & IGEL/773 (Concentrate)

Species: Mouse
 Immunogen: Human tonsil B-cells (L26); Recombinant human MS4A1 protein (IGEL/773)
 Clone: L26 & IGEL/773
 Isotype: IgG2a, kappa (L26); IgG2a, kappa (IGEL/773)
 Species Reactivity: Human. Others not known.
 Positive Control: Daudi, Raji, and U266, and human lymphocytes, lymph nodes and tonsils.
 Specificity: Recognizes a protein of 30-33kDa, which is identified as CD20. Its epitope is located in the cytoplasmic domain of CD20 and was, therefore, ascribed as CD20cy in the 5th Workshop.
 Status: RUO

Catalog Number	Volume
RA0047-C.1	0.1 ml
RA0047-C.5	0.5 ml

CD20 / MS4A1 (B-Cell Marker); Clone L26 (Concentrate)

Species: Mouse
 Immunogen: Human tonsil B-cells
 Clone: L26
 Isotype: IgG2a, kappa
 Species Reactivity: Human, Baboon, and Monkey. Does not react with Cow, Cog, Pig, and Rat. Others not known.
 Positive Control: Daudi, Raji, and U266, and human lymphocytes, lymph nodes and tonsils.
 Specificity: Recognizes a protein of 30-33kDa, which is identified as CD20. Its epitope is located in the cytoplasmic domain of CD20 and was, therefore, ascribed as CD20cy in the 5th Workshop.
 Status: RUO

Catalog Number	Volume
RA0045-C.1	0.1 ml
RA0045-C.5	0.5 ml

CD26 (DPP IV / ADA-Binding Protein); Clone 134-2C2 (Concentrate)

Species: Mouse.

Immunogen: A synthetic peptide from the amino terminal region of CD26.

Clone: 134-2C2.

Isotype: IgM, kappa.

Species Reactivity: Reacts with human. Others not known.

Positive Control: U-87 MG (Human glioblastoma astrocytoma), Ramos (Human Burkitt's lymphoma, HEP-G2 cells, and lymphocytes. Lymph nodes and tonsils.

Specificity: Recognizes a glycoprotein of 110kDa, identified as CD26.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0561-C.1	0.1 ml
RA0561-C.5	0.5 ml
RA0561-C1	1 ml

CD26 (DPP IV / ADA-Binding Protein); Clone 202.36 (Concentrate)

Species: Mouse.

Immunogen: Human T-cell clone.

Clone: 202.36.

Isotype: IgG2b, kappa.

Species Reactivity: Reacts with human and rat. Does not react with pig and sheep. Others not known.

Positive Control: YT, HEP-G2 cells, and lymphocytes. Lymph nodes and tonsils.

Specificity: Recognizes a glycoprotein of 110kDa, identified as CD26 (Workshop VI; Code: N-L039). It is an atypical serine protease belonging to the prolyl oligopeptidase family. In Western blotting, this monoclonal antibody reacts with only glycosylated CD26, but not with the deglycosylated form. It does not prevent ADA binding to CD26.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0559-C.1	0.1 ml
RA0559-C.5	0.5 ml
RA0559-C1	1 ml

CD26 (DPP IV / ADA-Binding Protein); Clone DPP4/910 (Concentrate)

Species: Mouse.

Immunogen: Recombinant human DPP4 protein.

Clone: DPP4/910.

Isotype: IgG2b, kappa.

Species Reactivity: Reacts with human and rat. Does not react with pig and sheep. Others not known.

Positive Control: U-87 MG (Human glioblastoma astrocytoma), Ramos (Human Burkitt's lymphoma, HEP-G2 cells, and lymphocytes. Lymph nodes and tonsils.

Specificity: Recognizes a glycoprotein of 110kDa, identified as CD26.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0560-C.1	0.1 ml
RA0560-C.5	0.5 ml
RA0560-C1	1 ml

CD30 / TNFRSF8 (Hodgkin & Reed-Sternberg Cell Marker); Clone Ber-H2 & CD30/412 (Concentrate)

Species: Mouse

Immunogen: Cancer cell line established from a patient with Hodgkin's disease of T-cell lineage (Ber-H2); human CD30 recombinant protein (CD30/412)

Clone: Ber-H2 & CD30/412

Isotype: IgG1, kappa (Ber-H2); IgG1, kappa (CD30/412)

Species Reactivity: Human. Others not known.

Positive Control: Hodgkin's lymphoma

Specificity: Recognizes a single chain glycoprotein of 105/120kDa, identified as CD30/Ki-1. This MAb distinguishes large cell lymphomas derived from activated lymphoid cells from histiocytic malignancies and lymphomas derived from resting and precursor lymphoid cells or from anaplastic carcinomas.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0051-C.1	0.1 ml
RA0051-C.5	0.5 ml

CD30 / TNFRSF8 (Hodgkin & Reed-Sternberg Cell Marker); Clone Ber-H2 (Concentrate)

Species: Mouse

Immunogen: Cancer cell line established from a patient with Hodgkin's disease of T-cell lineage

Clone: Ber-H2

Isotype: IgG1, kappa

Species Reactivity: Human. Others not known.

Positive Control: Hodgkin's lymphoma

Specificity: Recognizes a single chain glycoprotein of 105/120kDa, identified as CD30/Ki-1. This MAb distinguishes large cell lymphomas derived from activated lymphoid cells from histiocytic malignancies and lymphomas derived from resting and precursor lymphoid cells or from anaplastic carcinomas.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0049-C.1	0.1 ml
RA0049-C.5	0.5 ml

CD30 / TNFRSF8 (Hodgkin & Reed-Sternberg Cell Marker); Clone CD30/412 (Concentrate)

Species: Mouse

Immunogen: Human CD30 recombinant protein

Clone: CD30/412

Isotype: IgG1, kappa

Species Reactivity: Human. Others not known.

Positive Control: Hodgkin's lymphoma

Specificity: Recognizes a single chain glycoprotein of 105/120kDa, identified as CD30/Ki-1. This MAb distinguishes large cell lymphomas derived from activated lymphoid cells from histiocytic malignancies and lymphomas derived from resting and precursor lymphoid cells or from anaplastic carcinomas.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0048-C.1	0.1 ml
RA0048-C.5	0.5 ml

CD30 / TNFRSF8 (Hodgkin & Reed-Sternberg Cell Marker); Clone Ki-1/779 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human TNFRSF8 protein
 Clone: Ki-1/779
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Hodgkin's Lymphoma
 Specificity: Recognizes a single chain glycoprotein of 105/120kDa, identified as CD30/Ki-1. This MAb distinguishes large cell lymphomas derived from activated lymphoid cells from histiocytic malignancies and lymphomas derived from resting and precursor lymphoid cells or from anaplastic carcinomas.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0050-C.1	0.1 ml
RA0050-C.5	0.5 ml

CD31 (Anti-Mouse); Clone SZ31 (Concentrate)

Species: Rat
 Immunogen: Murine amino acid fragment.
 Clone: SZ31
 Isotype: IgG2a
 Species Reactivity: Mouse, Pig. Does not react with Rat or Human.
 Positive Control: Adult or embryonic mouse endothelial cells.
 Specificity: Murine CD31 (PECAM-1).
 Status: RUO
 Manufactured By: Dianova GmbH

<u>Catalog Number</u>	<u>Volume</u>
DIA-310	0.5 ml

CD31 / PECAM-1 (Endothelial Cell Marker); Clone 158-2B3 (Concentrate)

Species: Mouse
 Immunogen: Stimulated human leukocytes (Workshop VI)
 Clone: 158-2B3
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Tonsil, Angiosarcoma.
 Specificity: Anti-CD31 has shown to be highly specific and sensitive for vascular endothelial cells. Staining of nonvascular tumors (excluding hematopoietic neoplasms) is rare. Anti-CD31 reacts with normal, benign, and malignant endothelial cells which make up blood vessel lining.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0262-C.1	0.1 ml
RA0262-C.5	0.5 ml

CD31 / PECAM-1 (Endothelial Cell Marker); Clone 1A10 (Concentrate)

Species: Mouse
 Immunogen: Prokaryotic recombinant fusion protein corresponding to a portion of the extracellular domain downstream of the signal sequence of the CD31 (PECAM-1).
 Clone: 1A10
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Tonsil, Angiosarcoma.
 Specificity: Anti-CD31 has shown to be highly specific and sensitive for vascular endothelial cells. Staining of nonvascular tumors (excluding hematopoietic neoplasms) is rare. Anti-CD31 reacts with normal, benign, and malignant endothelial cells which make up blood vessel lining.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0260-C.1	0.1 ml
RA0260-C.5	0.5 ml

CD31 / PECAM-1 (Endothelial Cell Marker); Clone C31.3 & JC/70A (Concentrate)

Species: Mouse
 Immunogen: Human recombinant CD31 protein (C31.3); Membrane preparation of a spleen from a patient with hairy cell leukemia (JC/70A).
 Clone: C31.3 & JC/70A
 Isotype: IgG1, kappa (C31.3); IgG1, kappa (JC/70A)
 Species Reactivity: Human, Cynomolgus Monkey, and Rabbit. Others not known.
 Positive Control: Tonsil, Angiosarcoma.
 Specificity: Anti-CD31 has shown to be highly specific and sensitive for vascular endothelial cells. Staining of nonvascular tumors (excluding hematopoietic neoplasms) is rare. Anti-CD31 reacts with normal, benign, and malignant endothelial cells which make up blood vessel lining.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0258-C.1	0.1 ml
RA0258-C.5	0.5 ml

CD31 / PECAM-1 (Endothelial Cell Marker); Clone C31.3 (Concentrate)

Species: Mouse
 Immunogen: Human recombinant CD31 protein
 Clone: C31.3
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Jurkat, CCRF-CEM or K-562 Cells. Tonsil, Angiosarcoma.
 Specificity: Anti-CD31 has shown to be highly specific and sensitive for vascular endothelial cells. Staining of nonvascular tumors (excluding hematopoietic neoplasms) is rare. Anti-CD31 reacts with normal, benign, and malignant endothelial cells which make up blood vessel lining.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0257-C.1	0.1 ml
RA0257-C.5	0.5 ml

CD31 / PECAM-1 (Endothelial Cell Marker); Clone C31.7 (Concentrate)

Species: Mouse
 Immunogen: Human recombinant CD31 protein
 Clone: C31.7
 Isotype: IgG1, kappa
 Species Reactivity: Human, Cynomolgus Monkey, and Rabbit.
 Others not known.
 Positive Control: Jurkat, CCRF-CEM or K-562 Cells. Tonsil, Angiosarcoma.
 Specificity: Anti-CD31 has shown to be highly specific and sensitive for vascular endothelial cells. Staining of nonvascular tumors (excluding hematopoietic neoplasms) is rare. Anti-CD31 reacts with normal, benign, and malignant endothelial cells which make up blood vessel lining.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0256-C.1	0.1 ml
RA0256-C.5	0.5 ml

CD31 / PECAM-1 (Endothelial Cell Marker); Clone JC/70A (Concentrate)

Species: Mouse
 Immunogen: Membrane preparation of a spleen from a patient with hairy cell leukemia.
 Clone: JC/70A
 Isotype: IgG1, kappa
 Species Reactivity: Human, Cynomolgus Monkey, and Rabbit.
 Others not known.
 Positive Control: Tonsil, Angiosarcoma.
 Specificity: Anti-CD31 has shown to be highly specific and sensitive for vascular endothelial cells. Staining of nonvascular tumors (excluding hematopoietic neoplasms) is rare. Anti-CD31 reacts with normal, benign, and malignant endothelial cells which make up blood vessel lining.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0259-C.1	0.1 ml
RA0259-C.5	0.5 ml

CD31 / PECAM-1 (Endothelial Cell Marker); Clone PECA1/848 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human PECAM1 protein
 Clone: PECA1/848
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Tonsil, Angiosarcoma.
 Specificity: Anti-CD31 has shown to be highly specific and sensitive for vascular endothelial cells. Staining of nonvascular tumors (excluding hematopoietic neoplasms) is rare. Anti-CD31 reacts with normal, benign, and malignant endothelial cells which make up blood vessel lining.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0261-C.1	0.1 ml
RA0261-C.5	0.5 ml

CD34 (Hematopoietic Stem Cell & Endothelial Marker); Clone HPCA1/763 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human HPCA1 protein
 Clone: HPCA1/763
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: KG-1 cells, Tonsil, or Angiosarcoma.
 Specificity: This MAb recognizes a single chain, transmembrane, heavily glycosylated protein of 90-120kDa, which is identified as CD34. Anti-CD34 labels > 85% of angiosarcoma and Kaposi's sarcoma, but with a lower specificity.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0053-C.1	0.1 ml
RA0053-C.5	0.5 ml

CD34 (Hematopoietic Stem Cell & Endothelial Marker); Clone QBEnd/10 & HPCA1/763 (Concentrate)

Species: Mouse
 Immunogen: Detergent solubilized vesicular suspension prepared from human term placenta (QBEnd/10); Recombinant human HPCA1 protein (HPCA1/763)
 Clone: QBEnd/10 & HPCA1/763
 Isotype: IgG1, kappa (QBEnd/10); IgG1, kappa (HPCA1/763)
 Species Reactivity: Human. Others not known.
 Positive Control: KG-1 cells, Tonsil, or Angiosarcoma.
 Specificity: This monoclonal antibody recognizes a single chain, transmembrane, heavily glycosylated protein of 90-120kDa, which is identified as CD34. Anti-CD34 labels > 85% of angiosarcoma and Kaposi's sarcoma, but with a lower specificity.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0054-C.1	0.1 ml
RA0054-C.5	0.5 ml

CD34 (Hematopoietic Stem Cell & Endothelial Marker); Clone QBEnd/10 (Concentrate)

Species: Mouse
 Immunogen: Detergent solubilized vesicular suspension prepared from human term placenta
 Clone: QBEnd/10
 Isotype: IgG1, kappa
 Species Reactivity: Human, Cynomolgus Monkey, Rhesus Monkey. Does not react with rat, sheep, cow and dog. Others not known.
 Positive Control: KG-1 cells, Tonsil, or Angiosarcoma
 Specificity: This MAb recognizes a single chain, transmembrane, heavily glycosylated protein of 90-120kDa, which is identified as CD34. On the basis of differential sensitivity to degradation by specific enzymes, epitopes of monoclonal antibodies to CD34 are classified into three main categories, class I, class II and class III. It is a class II antibody whose epitope is resistant to neuraminidase but sensitive to glycoprotease and chymopapain. Anti-CD34 labels > 85% of angiosarcoma and Kaposi's sarcoma, but with a lower specificity.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0052-C.1	0.1 ml
RA0052-C.5	0.5 ml

CD35 / CR1 (Follicular Dendritic Cell Marker); Clone CR1/802 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human CR1 protein
 Clone: CR1/802
 Isotype: IgG1, kappa
 Species Reactivity: Human, Baboon, and Monkey. Others not known.
 Positive Control: Follicular dendritic cells (FDC) in tonsil.
 Specificity: Recognizes a protein of 210-220kDa, which is identified as the complement receptor 1 (CR1)/CD35. This antibody is specific for a site in CR1 that is distal from the C3b-binding site, so that it is unable to block CR1 activity. It is highly specific to CR1 and shows no cross-reaction with CR2. This antibody labels follicular dendritic cells and follicular dendritic cell sarcoma.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0103-C.1	0.1 ml
RA0103-C.5	0.5 ml

CD35 / CR1 (Follicular Dendritic Cell Marker); Clone E11 (Concentrate)

Species: Mouse
 Immunogen: Intact human monocytes
 Clone: E11
 Isotype: IgG1, kappa
 Species Reactivity: Human, Baboon, Cynomolgus Monkey, Rhesus Monkey. Others not known.
 Positive Control: Follicular dendritic cells (FDC) in tonsil.
 Specificity: Recognizes a protein of 210-220kDa, which is identified as the complement receptor 1 (CR1)/CD35. This antibody is specific for a site in CR1 that is distal from the C3b-binding site, so that it is unable to block CR1 activity. It is highly specific to CR1 and shows no cross-reaction with CR2. This antibody labels follicular dendritic cells and follicular dendritic cell sarcoma.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0102-C.1	0.1 ml
RA0102-C.5	0.5 ml

CD43 (T-Cell Marker); Clone 84-3C1 (Concentrate)

Species: Mouse
 Immunogen: Stimulated human leukocytes
 Clone: 84-3C1
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Paracortex in a tonsil or a reactive lymph node.
 Specificity: This antibody recognizes a cell surface glycoprotein of 95/115/135kDa (depending upon the extent of glycosylation), identified as CD43 [Workshop IV].
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0299-C.1	0.1 ml
RA0299-C.5	0.5 ml

CD43 (T-Cell Marker); Clone DF-T1 (Concentrate)

Species: Mouse
 Immunogen: Myeloblastic KG1 cells
 Clone: DF-T1
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Paracortex in a tonsil or a reactive lymph node.
 Specificity: This antibody recognizes a cell surface glycoprotein of 95/115/135kDa (depending upon the extent of glycosylation), identified as CD43 [Workshop IV].
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0297-C.1	0.1 ml
RA0297-C.5	0.5 ml

CD43 (T-Cell Marker); Clone SPN/839 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human SPN protein
 Clone: SPN/839
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Paracortex in a tonsil or a reactive lymph node.
 Specificity: This antibody recognizes a cell surface glycoprotein of 95/115/135kDa (depending upon the extent of glycosylation), identified as CD43 [Workshop IV].
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0298-C.1	0.1 ml
RA0298-C.5	0.5 ml

CD44 / HCAM Std.; Clone 156-3C11 (Concentrate)

Species: Mouse
 Immunogen: Stimulated human leukocytes
 Clone: 156-3C11
 Isotype: IgG2a, kappa
 Species Reactivity: Human, Baboon, and Green Monkey. Others not tested.
 Positive Control: HeLa cells or paracortex in tonsil or lymph node.
 Specificity: Recognizes a cell surface glycoprotein of 80-95kDa (CD44) on lymphocytes, monocytes, and granulocytes (Leukocyte Typing Workshop V). Its epitope is resistant to digestion by trypsin and chymotrypsin.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0055-C.1	0.1 ml
RA0055-C.5	0.5 ml
RA0055-C1	1 ml

CD44 / HCAM Std.; Clone HCAM/918 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human HCAM protein
 Clone: HCAM/918
 Isotype: IgG2a, kappa
 Species Reactivity: Human and non-human Primates. Others not tested.
 Positive Control: HeLa cells or paracortex in tonsil or lymph node.
 Specificity: Recognizes a cell surface glycoprotein of 80-95kDa (CD44) on lymphocytes, monocytes, and granulocytes (Leukocyte Typing Workshop V). Its epitope is resistant to digestion by trypsin and chymotrypsin.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0056-C.1	0.1 ml
RA0056-C.5	0.5 ml

CD45 / LCA (Leukocyte Marker); Clone 135-4C5 (Concentrate)

Species: Mouse
 Immunogen: Stimulated human leukocytes
 Clone: 135-4C5
 Isotype: IgG2b, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Ramos, U-698, or GA-10 cells. Tonsil.
 Specificity: CD45R, also designated as CD45 and PTPRC, has been identified as a transmembrane glycoprotein broadly expressed among hematopoietic cells. This antibody to CD45 is useful in differential diagnosis of lymphoid tumors from non-hematopoietic undifferentiated neoplasms.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0283-C.1	0.1 ml
RA0283-C.5	0.5 ml

CD45 / LCA (Leukocyte Marker); Clone 136-4B5 (Concentrate)

Species: Mouse
 Immunogen: Stimulated human leukocytes
 Clone: 136-4B5
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Ramos, U-698, or GA-10 cells. Tonsil.
 Specificity: CD45R, also designated as CD45 and PTPRC, has been identified as a transmembrane glycoprotein broadly expressed among hematopoietic cells. This antibody to CD45 is useful in differential diagnosis of lymphoid tumors from non-hematopoietic undifferentiated neoplasms.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0284-C.1	0.1 ml
RA0284-C.5	0.5 ml

CD45 / LCA (Leukocyte Marker); Clone 2B11 & PD7/26 (Concentrate)

Species: Mouse
 Immunogen: Isolated neoplastic cells from T-cell lymphoma (2B11); human peripheral blood lymphocytes maintained in T-cell growth factor (PD7/26).
 Clone: 2B11 & PD7/26
 Isotype: IgG1, kappa (2B11); IgG1, kappa (PD7/26).
 Species Reactivity: Human. Others not known.
 Positive Control: Ramos, U-698, or GA-10 cells. Tonsil.
 Specificity: This antibody recognizes the CD45 leukocyte common antigen (LCA) family.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0280-C.1	0.1 ml
RA0280-C.5	0.5 ml

CD45 / LCA (Leukocyte Marker); Clone 2B11 (Concentrate)

Species: Mouse
 Immunogen: Isolated neoplastic cells from T-cell lymphoma
 Clone: 2B11
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Ramos, U-698, or GA-10 cells. Tonsil.
 Specificity: CD45R, also designated as CD45 and PTPRC, has been identified as a transmembrane glycoprotein broadly expressed among hematopoietic cells. This antibody to CD45 is useful in differential diagnosis of lymphoid tumors from non-hematopoietic undifferentiated neoplasms.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0277-C.1	0.1 ml
RA0277-C.5	0.5 ml

CD45RA (Leukocyte Marker); Clone 111-1C5 (Concentrate)

Species: Mouse
 Immunogen: Stimulated human leukocytes
 Clone: 111-1C5
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Daudi, Raji, IM9 and human lymphocytes. Human lymph nodes and tonsils.
 Specificity: This antibody recognizes a protein of 205kDa-220kDa, identified as CD45RA. This antibody reacts with ABC and BC isoforms. CD45RA is expressed on 40-50% of peripheral CD4+ T-cells, 50% of peripheral CD8+ T-cells, B-cells, and leukemic B-cell lines.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0282-C.1	0.1 ml
RA0282-C.5	0.5 ml

CD45RA (Leukocyte Marker); Clone 158-4D3 (Concentrate)

Species: Mouse
 Immunogen: Stimulated human leukocytes
 Clone: 158-4D3
 Isotype: IgG2a, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Daudi, Raji, IM9 and human lymphocytes.
 Human lymph nodes and tonsils.
 Specificity: This antibody recognizes a protein of 205kDa-220kDa, identified as CD45RA. This antibody reacts with ABC and BC isoforms. CD45RA is expressed on 40-50% of peripheral CD4+ T-cells, 50% of peripheral CD8+ T-cells, B-cells, and leukemic B-cell lines.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0275-C.1	0.1 ml
RA0275-C.5	0.5 ml

CD45RB (Leukocyte Marker); Clone PD7/26 (Concentrate)

Species: Mouse
 Immunogen: Human peripheral blood lymphocytes maintained in T-cell growth factor
 Clone: PD7/26
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Ramos, U-698, or GA-10 cells. Tonsil.
 Specificity: CD45R, also designated as CD45 and PTPRC, has been identified as a transmembrane glycoprotein broadly expressed among hematopoietic cells. This antibody to CD45 is useful in differential diagnosis of lymphoid tumors from non-hematopoietic undifferentiated neoplasms.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0279-C.1	0.1 ml
RA0279-C.5	0.5 ml

CD45RO (T-Cell Marker); Clone T200/797 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human CD45RO protein
 Clone: T200/797
 Isotype: IgG2a, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: CCRF-CEM, Jurkat or MOLT-4 cells. Paracortex in a tonsil or a reactive lymph node.
 Specificity: This antibody recognizes a 180-185kDa protein, identified as an isoform of leukocyte common antigen (CD45RO). This antibody reacts with mature activated T-cells, most thymocytes, and a sub-population of resting T-cells within both CD4 and CD8 subsets. It shows no reactivity with normal B-cells or natural killer cells, but reacts with granulocytes and monocytes.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0281-C.1	0.1 ml
RA0281-C.5	0.5 ml

CD45RO (T-Cell Marker); Clone UCHL-1 (Concentrate)

Species: Mouse
 Immunogen: Cultured human T-cells from an IL-2-dependent T-cell line (CA1)
 Clone: UCHL-1
 Isotype: IgG2a, kappa
 Species Reactivity: Human, Chimpanzee, Common Marmoset. Others not known.
 Positive Control: CCRF-CEM, Jurkat or MOLT-4 cells. Paracortex in a tonsil or a reactive lymph node.
 Specificity: This antibody recognizes a 180-185kDa protein, identified as an isoform of leukocyte common antigen (CD45RO) (4th Leukocyte Typing Workshop: Code No. N31). The epitope recognized by this antibody is sensitive to neuraminidase digestion. This antibody reacts with mature activated T-cells, most thymocytes, and a sub-population of resting T-cells within both CD4 and CD8 subsets. It shows no reactivity with normal B-cells or natural killer cells, but reacts with granulocytes and monocytes.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0274-C.1	0.1 ml
RA0274-C.5	0.5 ml

CD5 (Mantle Cell Lymphoma Marker); Clone C5/473 & CD5/54/F6 (Concentrate)

Species: Mouse
 Immunogen: Human CD5 recombinant protein (C5/473); A synthetic peptide from the intracellular region of human CD5 (CD5/54/F6)
 Clone: C5/473 & CD5/54/F6
 Isotype: IgG1, kappa (C5/473) & IgG1, kappa (CD5/54/F6)
 Species Reactivity: Human. Others not known.
 Positive Control: 293T, Ramos, or MOLT-4 Cells. Tonsil.
 Specificity: Recognizes a 67kDa transmembrane protein, which is identified as CD5. Anti-CD5 does not react with granulocytes or monocytes.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0037-C.1	0.1 ml
RA0037-C.5	0.5 ml

CD5 (Mantle Cell Lymphoma Marker); Clone C5/473 (Concentrate)

Species: Mouse
 Immunogen: Human CD5 recombinant protein
 Clone: C5/473
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: 293T, Ramos, or MOLT-4 Cells. Tonsil.
 Specificity: Recognizes a 67kDa transmembrane protein, which is identified as CD5. Anti-CD5 does not react with granulocytes or monocytes.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0034-C.1	0.1 ml
RA0034-C.5	0.5 ml

CD5 (Mantle Cell Lymphoma Marker); Clone CD5/54/F6 (Concentrate)

Species: Mouse
 Immunogen: A synthetic peptide from the intracellular region of human CD5
 Clone: CD5/54/F6
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: 293T, Ramos, or MOLT-4 Cells. Tonsil.
 Specificity: Recognizes a 67kDa transmembrane protein, which is identified as CD5. Anti-CD5 does not react with granulocytes or monocytes.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0036-C.1	0.1 ml
RA0036-C.5	0.5 ml

CD50 / ICAM3; Clone ICAM3/1019 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human ICAM3 protein
 Clone: ICAM3/1019
 Isotype: IgG2b, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: HL-60 or THP-1 cells. Lymph node and tonsil.
 Specificity: This antibody recognizes an N-glycosylated glycoprotein of 120kDa with intra-chain disulfide bonds, identified as CD50 or ICAM-3.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0440-C.1	0.1 ml
RA0440-C.5	0.5 ml
RA0440-C1	1 ml

CD56 / NCAM1 / NKH1 (Neuronal Cell Marker); Clone 123A8 (56C04) (Concentrate)

Species: Mouse
 Immunogen: Membrane preparation of a small cell lung carcinoma
 Clone: 123A8 (same clone as 56C04)
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Cerebellum, Pancreas, Neuroblastoma.
 Specificity: This antibody reacts with an extracellular domain of CD56/NCAM. Anti-CD56 recognizes two proteins of the neural cell adhesion molecule, the basic molecule expressed on most neuroectodermally derived tissues and neoplasms (e.g. retinoblastoma, medulloblastomas, astrocytomas, neuroblastomas, and small cell carcinomas). It is also expressed on some mesodermally derived tumors (rhabdomyosarcoma). Anti-CD56 plays an important role in the diagnosis of nodal and nasal NK/T-cell lymphomas.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0238-C.1	0.1 ml
RA0238-C.5	0.5 ml

CD56 / NCAM1 / NKH1 (Neuronal Cell Marker); Clone 123C3.D5 & 123A8 (Concentrate)

Species: Mouse
 Immunogen: Membrane preparation of a small cell lung carcinoma (123C3.D5 & 123A8)
 Clone: 123C3.D5 & 123A8
 Isotype: IgG1, kappa (123C3.D5); IgG1, kappa (123A8)
 Species Reactivity: Human. Others not known.
 Positive Control: Cerebellum, Pancreas, Neuroblastoma.
 Specificity: This antibody reacts with an extracellular domain of CD56/NCAM. Anti-CD56 recognizes two proteins of the neural cell adhesion molecule, the basic molecule expressed on most neuroectodermally derived tissues and neoplasms (e.g. retinoblastoma, medulloblastomas, astrocytomas, neuroblastomas, and small cell carcinomas). It is also expressed on some mesodermally derived tumors (rhabdomyosarcoma). Anti-CD56 plays an important role in the diagnosis of nodal and nasal NK/T-cell lymphomas.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0239-C.1	0.1 ml
RA0239-C.5	0.5 ml

CD56 / NCAM1 / NKH1 (Neuronal Cell Marker); Clone 123C3.D5 (Concentrate)

Species: Mouse
 Immunogen: Membrane preparation of a small cell lung carcinoma
 Clone: 123C3.D5
 Isotype: IgG1, kappa
 Species Reactivity: Human, Rat, and Zebrafish. Others not known.
 Positive Control: Cerebellum, Pancreas, Neuroblastoma.
 Specificity: This antibody reacts with an extracellular domain of CD56/NCAM. Anti-CD56 recognizes two proteins of the neural cell adhesion molecule, the basic molecule expressed on most neuroectodermally derived tissues and neoplasms (e.g. retinoblastoma, medulloblastomas, astrocytomas, neuroblastomas, and small cell carcinomas). It is also expressed on some mesodermally derived tumors (rhabdomyosarcoma). Anti-CD56 plays an important role in the diagnosis of nodal and nasal NK/T-cell lymphomas.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0237-C.1	0.1 ml
RA0237-C.5	0.5 ml

CD56 / NCAM1 / NKH1 (Neuronal Cell Marker); Clone NKH1/784 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human NCAM1 protein
 Clone: NKH1/784
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Cerebellum, Pancreas, Neuroblastoma.
 Specificity: This antibody reacts with an extracellular domain of CD56/NCAM. Anti-CD56 recognizes two proteins of the neural cell adhesion molecule, the basic molecule expressed on most neuroectodermally derived tissues and neoplasms (e.g. retinoblastoma, medulloblastomas, astrocytomas, neuroblastomas, and small cell carcinomas). It is also expressed on some mesodermally derived tumors (rhabdomyosarcoma). Anti-CD56 plays an important role in the diagnosis of nodal and nasal NK/T-cell lymphomas.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0240-C.1	0.1 ml
RA0240-C.5	0.5 ml

CD56 / NCAM1 / NKH1 (Neuronal Cell Marker); Clone NKH1/795 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human NCAM1 protein
 Clone: NKH1/795
 Isotype: IgG1, kappa
 Species Reactivity: Human, Rat and Zebrafish. Others not known.
 Positive Control: Cerebellum, Pancreas, Neuroblastoma.
 Specificity: This antibody reacts with an extracellular domain of CD56/NCAM. Anti-CD56 recognizes two proteins of the neural cell adhesion molecule, the basic molecule expressed on most neuroectodermally derived tissues and neoplasms (e.g. retinoblastoma, medulloblastomas, astrocytomas, neuroblastomas, and small cell carcinomas). It is also expressed on some mesodermally derived tumors (rhabdomyosarcoma). Anti-CD56 plays an important role in the diagnosis of nodal and nasal NK/T-cell lymphomas.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0241-C.1	0.1 ml
RA0241-C.5	0.5 ml

CD57 / B3GAT1 (Natural Killer Cell Marker); Clone HNK-1 & NK-1 (Concentrate)

Species: Mouse
 Immunogen: Human peripheral blood mononuclear cells (HNK-1 & NK-1)
 Clone: HNK-1 & NK-1
 Isotype: IgM, kappa (HNK-1 & NK-1)
 Species Reactivity: Human. Does not react with Rat. Others not known.
 Positive Control: Lymph node or tonsil.
 Specificity: Anti-CD57 marks a subset of lymphocytes known as natural killer (NK) cells. Anti-CD57 also stains neuroendocrine cells and their derived tumors, including carcinoid tumors and medulloblastoma.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0357-C.1	0.1 ml
RA0357-C.5	0.5 ml

CD57 / B3GAT1 (Natural Killer Cell Marker); Clone HNK-1 or Leu-7 (Concentrate)

Species: Mouse
 Immunogen: Human peripheral blood mononuclear cells
 Clone: HNK-1 or Leu-7
 Isotype: IgM, kappa
 Species Reactivity: Human. Does not react with Rat. Others not known.
 Positive Control: CCRF-CEM Cells. Lymph node or tonsil.
 Specificity: Anti-CD57 marks a subset of lymphocytes known as natural killer (NK) cells. Anti-CD57 also stains neuroendocrine cells and their derived tumors, including carcinoid tumors and medulloblastoma.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0355-C.1	0.1 ml
RA0355-C.5	0.5 ml

CD57 / B3GAT1 (Natural Killer Cell Marker); Clone NK/804 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human B3GAT1 protein
 Clone: NK/804
 Isotype: IgM, kappa
 Species Reactivity: Human. Does not react with Rat. Others not known.
 Positive Control: Lymph node or tonsil.
 Specificity: Anti-CD57 marks a subset of lymphocytes known as natural killer (NK) cells. Anti-CD57 also stains neuroendocrine cells and their derived tumors, including carcinoid tumors and medulloblastoma.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0358-C.1	0.1 ml
RA0358-C.5	0.5 ml

CD57 / B3GAT1 (Natural Killer Cell Marker); Clone NK-1 (Concentrate)

Species: Mouse
 Immunogen: Human peripheral blood mononuclear cells
 Clone: NK-1
 Isotype: IgM, kappa
 Species Reactivity: Human. Does not react with Rat. Others not known.
 Positive Control: Lymph node or tonsil.
 Specificity: Anti-CD57 marks a subset of lymphocytes known as natural killer (NK) cells. Anti-CD57 also stains neuroendocrine cells and their derived tumors, including carcinoid tumors and medulloblastoma.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0356-C.1	0.1 ml
RA0356-C.5	0.5 ml

CD6; Clone 3F7B5 (Concentrate)

Species: Mouse
 Immunogen: Human rheumatoid synovial T-cell line ST-1
 Clone: 3F7B5
 Isotype: IgG1
 Species Reactivity: Human. Others not known.
 Positive Control: CCRF-CEM, Jurkat cells, Tonsil.
 Specificity: Cell membrane positivity as expressed by thymocytes, mature/activated T-cells, a subset of B-cells known as B-1 cells, and by some cells in the brain.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0038-C.1	0.1 ml
RA0038-C.5	0.5 ml

CD6; Clone C6/372 & 3F7B5 (Concentrate)

Species: Mouse
 Immunogen: Human recombinant CD6 protein (C6/372); Human rheumatoid synovial T-cell line ST-1 (3F7B5)
 Clone: C6/372 & 3F7B5
 Isotype: IgG1 (C6/372); IgG1 (3F7B5)
 Species Reactivity: Human. Others not known.
 Positive Control: CCRF-CEM, Jurkat cells, tonsil.
 Specificity: Cell membrane positivity as expressed by thymocytes, mature/activated T-cells, a subset of B-cells known as B-1 cells, and by some cells in the brain.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0040-C.1	0.1 ml
RA0040-C.5	0.5 ml

CD6; Clone C6/372 (Concentrate)

Species: Mouse
 Immunogen: Human recombinant CD6 protein
 Clone: C6/372
 Isotype: IgG1
 Species Reactivity: Human. Others not known.
 Positive Control: CCRF-CEM, Jurkat cells, Tonsil.
 Specificity: Cell membrane positivity as expressed by thymocytes, mature/activated T-cells, a subset of B-cells known as B-1 cells, and by some cells in the brain.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0039-C.1	0.1 ml
RA0039-C.5	0.5 ml

CD63 (Late Endosomes Marker); Clone LAMP3/803 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human CD63 protein
 Clone: LAMP3/803
 Isotype: IgG1, kappa
 Species Reactivity: Human and Mouse. Others not known.
 Positive Control: SK-MEL-28, HL60, THP-1 or NIH/3T3 cells. Melanoma or lymphoma.
 Specificity: CD63 is expressed on activated platelets, monocytes and macrophages, and is weakly expressed on granulocytes, T-cells and B-cells. It is located on the basophilic granule membranes and on the plasma membranes of lymphocytes and granulocytes.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0059-C.1	0.1 ml
RA0059-C.5	0.5 ml

CD63 (Late Endosomes Marker); Clone MX-49.129.5 (Concentrate)

Species: Mouse
 Immunogen: Full length CD63 of human origin
 Clone: MX-49.129.5
 Isotype: IgG1, kappa
 Species Reactivity: Human and Mouse. Others not known.
 Positive Control: SK-MEL-28, HL60, THP-1 or NIH/3T3 cells. Melanoma or lymphoma.
 Specificity: CD63 is expressed on activated platelets, monocytes and macrophages, and is weakly expressed on granulocytes, T-cells and B-cells. It is located on the basophilic granule membranes and on the plasma membranes of lymphocytes and granulocytes.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0058-C.1	0.1 ml
RA0058-C.5	0.5 ml

CD63 (Late Endosomes Marker); Clone NK1/C3 (Concentrate)

Species: Mouse
 Immunogen: Smooth plasma membrane fraction of MeWo cells
 Clone: NK1/C3
 Isotype: IgG1, kappa
 Species Reactivity: Human and Mouse. Others not known.
 Positive Control: SK-MEL-28, HL60, THP-1 or NIH/3T3 cells. Melanoma or lymphoma.
 Specificity: CD63 is expressed on activated platelets, monocytes and macrophages, and is weakly expressed on granulocytes, T-cells and B-cells. It is located on the basophilic granule membranes and on the plasma membranes of lymphocytes and granulocytes.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0057-C.1	0.1 ml
RA0057-C.5	0.5 ml

CD68 (Macrophage Marker); Clone C68/684 (Concentrate)

Species: Mouse
 Immunogen: Subcellular fraction of human alveolar macrophages
 Clone: C68/684
 Isotype: IgG1, kappa
 Species Reactivity: Human, Monkey, Mouse, Rat, and Cat. Others not known.
 Positive Control: Tonsil, Lymph Node or Spleen.
 Specificity: This antibody recognizes a glycoprotein of 110kDa, which is identified as CD68.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0061-C.1	0.1 ml
RA0061-C.5	0.5 ml

CD68 (Macrophage Marker); Clone CD68/G2 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human CD68 protein
 Clone: CD68/G2
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Tonsil, Lymph Node or Spleen
 Specificity: This antibody recognizes a glycoprotein of 110kDa, which is identified as CD68.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0064-C.1	0.1 ml
RA0064-C.5	0.5 ml

CD68 (Macrophage Marker); Clone KP1 & C68/684 (Concentrate)

Species: Mouse
 Immunogen: Subcellular fraction of human alveolar macrophages (KP1); Subcellular fraction of human alveolar macrophages (C68/684)
 Clone: KP1 & C68/684
 Isotype: IgG1, kappa (KP1); IgG1, kappa (C68/684)
 Species Reactivity: Human, Monkey, Mouse, Rat and Cat. Others not known.
 Positive Control: Tonsil, Lymph Node or Spleen.
 Specificity: This antibody recognizes a glycoprotein of 110kDa, which is identified as CD68.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0062-C.1	0.1 ml
RA0062-C.5	0.5 ml

CD68 (Macrophage Marker); Clone KP1 (Concentrate)

Species: Mouse
 Immunogen: Subcellular fraction of human alveolar macrophages
 Clone: KP1
 Isotype: IgG1, kappa
 Positive Control: Tonsil, Lymph Node or Spleen
 Cellular Localization: Cytoplasmic
 Specificity: This antibody recognizes a glycoprotein of 110kDa, which is identified as CD68.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0060-C.1	0.1 ml
RA0060-C.5	0.5 ml

CD68 (Macrophage Marker); Clone LAMP4/824 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human LAMP4 protein
 Clone: LAMP4/824
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Tonsil, Lymph Node or Spleen.
 Specificity: This antibody recognizes a glycoprotein of 110kDa, which is identified as CD68.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0063-C.1	0.1 ml
RA0063-C.5	0.5 ml

CD74 (B-Cell Marker); Clone CLIP/813 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human CD74 protein
 Clone: CLIP/813
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Daudi or Raji Cells. Tonsil or Lymph Node.
 Specificity: This monoclonal antibody recognizes a protein of ~35kDa, identified as CD74.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0066-C.1	0.1 ml
RA0066-C.5	0.5 ml

CD74 (B-Cell Marker); Clone LN-2 (Concentrate)

Species: Mouse
 Immunogen: SU-DHL-4 lymphoma cells
 Clone: LN-2
 Isotype: IgG1, kappa
 Species Reactivity: Human, Baboon and Mouse. Does not react with Rat. Others not known.
 Positive Control: Daudi or Raji Cells. Tonsil or Lymph Node.
 Specificity: This monoclonal antibody recognizes a protein of ~35kDa, identified as CD74 (Workshop IV).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0065-C.1	0.1 ml
RA0065-C.5	0.5 ml

CD79a (B-Cell Marker); Clone HM47/A9 (Concentrate)

Species: Mouse

Immunogen: A synthetic peptide corresponding to aa 202-216 (GTYQDVGSLNIADVQ) of human CD79a protein.

Clone: HM47/A9

Isotype: IgG1, kappa

Species Reactivity: Human, Monkey, Pig, Cow, Mouse and Rat. Others not known.

Positive Control: Daudi or Ramos cells. Germinal center B-cells in a lymph node or tonsil.

Specificity: Anti-CD79a is generally used to complement anti-CD20 especially for mature B-cell lymphomas after treatment with Rituximab (anti-CD20). This antibody will stain many of the same lymphomas as anti-CD20, but also is more likely to stain B-lymphoblastic lymphoma/leukemia than is anti-CD20. Anti-CD79a also stains more cases of plasma cell myeloma and occasionally some types of endothelial cells as well.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0069-C.1	0.1 ml
RA0069-C.5	0.5 ml

CD79a (B-Cell Marker); Clone IGA/515 (Concentrate)

Species: Mouse

Immunogen: Recombinant human IGA protein

Clone: IGA/515

Isotype: IgG1, kappa

Species Reactivity: Human. Others not known.

Positive Control: Daudi or Ramos cells. Germinal center B-cells in a lymph node or tonsil.

Specificity: Anti-CD79a is generally used to complement anti-CD20 especially for mature B-cell lymphomas after treatment with Rituximab (anti-CD20). This antibody will stain many of the same lymphomas as anti-CD20, but also is more likely to stain B-lymphoblastic lymphoma/leukemia than is anti-CD20. Anti-CD79a also stains more cases of plasma cell myeloma and occasionally some types of endothelial cells as well.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0073-C.1	0.1 ml
RA0073-C.5	0.5 ml

CD79a (B-Cell Marker); Clone IGA/764 (Concentrate)

Species: Mouse

Immunogen: Recombinant human IGA protein

Clone: IGA/764

Isotype: IgG1, kappa

Species Reactivity: Human. Others not known.

Positive Control: Daudi or Ramos cells. Germinal center B-cells in a lymph node or tonsil.

Specificity: Anti-CD79a is generally used to complement anti-CD20 especially for mature B-cell lymphomas after treatment with Rituximab (anti-CD20). This antibody will stain many of the same lymphomas as anti-CD20, but also is more likely to stain B-lymphoblastic lymphoma/leukemia than is anti-CD20. Anti-CD79a also stains more cases of plasma cell myeloma and occasionally some types of endothelial cells as well.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0072-C.1	0.1 ml
RA0072-C.5	0.5 ml

CD79a (B-Cell Marker); Clone JCB117 & HM47/A9 (Concentrate)

Species: Mouse

Immunogen: A synthetic peptide corresponding to aa 202-216 (GTYQDVGSLNIADVQ) of human CD79a protein (JCB117 and HM47/A9).

Clone: JCB117 & HM47/A9

Isotype: IgG1, kappa (JCB117); IgG1, kappa (HM47/A9)

Species Reactivity: Human, Monkey, Pig, Cow, Mouse and Rat. Others not known.

Positive Control: Daudi or Ramos cells. Germinal center B-cells in a lymph node or tonsil.

Specificity: Anti-CD79a is generally used to complement anti-CD20 especially for mature B-cell lymphomas after treatment with Rituximab (anti-CD20). This antibody will stain many of the same lymphomas as anti-CD20, but also is more likely to stain B-lymphoblastic lymphoma/leukemia than is anti-CD20. Anti-CD79a also stains more cases of plasma cell myeloma and occasionally some types of endothelial cells as well.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0071-C.1	0.1 ml
RA0071-C.5	0.5 ml

CD79a (B-Cell Marker); Clone JCB117 (Concentrate)

Species: Mouse
 Immunogen: A synthetic peptide corresponding to aa 202-216 (GTYQDVGSLNIADVQ) of human CD79a protein.
 Clone: JCB117
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Daudi or Ramos cells. Germinal center B-cells in a lymph node or tonsil.
 Specificity: Anti-CD79a is generally used to complement anti-CD20 especially for mature B-cell lymphomas after treatment with Rituximab (anti-CD20). This antibody will stain many of the same lymphomas as anti-CD20, but also is more likely to stain B-lymphoblastic lymphoma/leukemia than is anti-CD20. Anti-CD79a also stains more cases of plasma cell myeloma and occasionally some types of endothelial cells as well.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0067-C.1	0.1 ml
RA0067-C.5	0.5 ml

CD8A (Cytotoxic & Suppressor T-Cell Marker); Clone C8/144B (Concentrate)

Species: Mouse
 Immunogen: A 13 amino acid peptide from C-terminal cytoplasmic domain of alpha chain of human CD8 molecule.
 Clone: C8/144B
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: HuT78 or hPBL. Tonsil.
 Specificity: CD8 is a 68 kDa transmembrane glycoprotein expressed as a heterodimer by a majority of thymocytes, and by major histocompatibility complex (MHC) class I restricted, mature, suppressor/cytotoxic T-cells.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0042-C.1	0.1 ml
RA0042-C.5	0.5 ml

CD8A (Cytotoxic & Suppressor T-Cell Marker); Clone C8/468 & C8/144B (Concentrate)

Species: Mouse
 Immunogen: Human CD8 recombinant protein (C8/468); A 13 amino acid synthetic peptide from the C-terminal cytoplasmic domain of alpha chain of human CD8 molecule (C8/144B)
 Clone: C8/468 & C8/144B
 Isotype: IgG1, kappa (C8/468); IgG1, kappa (C8/144B)
 Species Reactivity: Human. Others not known.
 Positive Control: HuT78 or hPBL. Tonsil.
 Specificity: CD8 is a 68 kDa transmembrane glycoprotein expressed as a heterodimer by a majority of thymocytes, and by major histocompatibility complex (MHC) class I restricted, mature, suppressor/cytotoxic T-cells.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0043-C.1	0.1 ml
RA0043-C.5	0.5 ml

CD8A (Cytotoxic & Suppressor T-Cell Marker); Clone C8/468 (Concentrate)

Species: Mouse
 Immunogen: Human CD8 recombinant protein
 Clone: C8/468
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: HuT78 or hPBL. Tonsil.
 Specificity: CD8 is a 68kDa transmembrane glycoprotein expressed as a heterodimer by a majority of thymocytes, and by major histocompatibility complex (MHC) class I restricted, mature, suppressor/cytotoxic T-cells.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0041-C.1	0.1 ml
RA0041-C.5	0.5 ml

CD99 / MIC2 (Ewing's Sarcoma Marker); Clone 12E7 & MIC2/877 (Concentrate)

Species: Mouse
 Immunogen: Human acute lymphocytic leukemia T-cells (12E7); Recombinant human MIC2 protein (MIC2/877)
 Clone: 12E7 & MIC2/877
 Isotype: IgG1, kappa (12E7); IgG1, kappa (MIC2/877)
 Species Reactivity: Human. Others not tested.
 Positive Control: MOLT-4 cells. Pancreas or Ewing's sarcoma.
 Specificity: Recognizes a sialoglycoprotein of 27-32kDa, identified as CD99, MIC2 gene product, or E2 antigen.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0206-C.1	0.1 ml
RA0206-C.5	0.5 ml

CD99 / MIC2 (Ewing's Sarcoma Marker); Clone 12E7 (Concentrate)

Species: Mouse
 Immunogen: Human acute lymphocytic leukemia T-cells
 Clone: 12E7
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not tested.
 Positive Control: MOLT-4 cells. Pancreas or Ewing's sarcoma.
 Specificity: Recognizes a sialoglycoprotein of 27-32kDa, identified as CD99, MIC2 gene product, or E2 antigen. This antibody shows a very similar reactivity to other CD99 antibodies (e.g. O13, 12E7, or HBA-71) and is excellent for immunohistochemical staining of formalin-fixed, paraffin-embedded tissues.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0204-C.1	0.1 ml
RA0204-C.5	0.5 ml

CD99 / MIC2 (Ewing's Sarcoma Marker); Clone HO36-1.1 (Concentrate)

Species: Mouse
 Immunogen: Purified E-rosette forming cells from human peripheral blood lymphocytes
 Clone: HO36-1.1
 Isotype: IgM, kappa
 Species Reactivity: Human and Rat. Others not tested.
 Positive Control: Pancreas or Ewing's sarcoma.
 Specificity: Recognizes a sialoglycoprotein of 27-32kDa, identified as CD99, MIC2 gene product, or E2 antigen. This antibody shows a very similar reactivity to other CD99 antibodies (e.g. O13, 12E7, or HBA-71) and is excellent for immunohistochemical staining of formalin-fixed, paraffin-embedded tissues.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0203-C.1	0.1 ml
RA0203-C.5	0.5 ml

CD99 / MIC2 (Ewing's Sarcoma Marker); Clone MIC2/877 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human MIC2 protein
 Clone: MIC2/877
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not tested.
 Positive Control: MOLT-4 cells. Pancreas or Ewing's sarcoma.
 Specificity: Recognizes a sialoglycoprotein of 27-32kDa, identified as CD99, MIC2 gene product, or E2 antigen.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0205-C.1	0.1 ml
RA0205-C.5	0.5 ml

CDw75 (B-Cell Marker); Clone LN-1 (Concentrate)

Species: Mouse
 Immunogen: Nuclei from pokeweed mitogen-stimulated peripheral blood lymphocytes.
 Clone: LN-1
 Isotype: IgM, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: HeLa or Daudi Cells. Germinal center B-cells in a lymph node or tonsil. Use LN1's ability to stain surface of erythrocytes as an internal positive control.
 Specificity: Recognizes a neuraminidase-sensitive sialoprotein (CDw75), present on cell membrane and cytoplasm of germinal center B-cells and derived lymphomas. This antibody reacts with RBC precursors of bone marrow, ductal, and ciliated epithelial cells of kidney, breast, prostate, pancreas, lung, and with glioblastomas, astrocytomas, and Reed Sternberg cells in lymphocyte predominant Hodgkin's disease.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0291-C.1	0.1 ml
RA0291-C.5	0.5 ml
RA0291-C1	1 ml

CDX2 (GI Epithelial Marker); Clone CDX2/1690 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human CDX2 protein fragment (aa150-249) (exact sequence is proprietary)
 Clone: CDX2/1690
 Isotype: IgG2a, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: HT29 cells or Colon Carcinoma.
 Specificity: Anti-CDX2 has been useful to establish GI origin of metastatic adenocarcinomas and carcinoids and is especially useful to distinguish metastatic colorectal adenocarcinoma from lung adenocarcinoma. However, mucinous carcinomas of the ovary also express CDX2 protein. It limits the usefulness of this marker in the distinction of metastatic colorectal adenocarcinoma from mucinous carcinoma of the ovary.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0480-C.1	0.1 ml
RA0480-C.5	0.5 ml
RA0480-C1	1 ml

CFTR (Cystic Fibrosis Transmembrane Conductance Regulator); Clone CFTR/1341 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human full-length CFTR.
 Clone: CFTR/1341
 Isotype: IgG1
 Species Reactivity: Human. Others not known.
 Positive Control: MOLT-4 cells. Pancreas, Kidney or Placenta.
 Specificity: Recognizes a protein of 165-170kDa, identified as cystic fibrosis transmembrane conductance regulator (CFTR).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0497-C.1	0.1 ml
RA0497-C.5	0.5 ml
RA0497-C1	1 ml

CFTR (Cystic Fibrosis Transmembrane Conductance Regulator); Clone CFTR/1342 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human full-length CFTR
 Clone: CFTR/1342
 Isotype: IgG1
 Species Reactivity: Reacts with human. Others not known.
 Positive Control: MOLT-4 cells. Pancreas, Kidney or Placenta.
 Specificity: Recognizes a protein of 165-170kDa, identified as cystic fibrosis transmembrane conductance regulator (CFTR).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0498-C.1	0.1 ml
RA0498-C.5	0.5 ml
RA0498-C1	1 ml

CFTR (Cystic Fibrosis Transmembrane Conductance Regulator); Clone CFTR/1643 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human CFTR fragment (aa258-385) (exact sequence is proprietary).
 Clone: CFTR/1643
 Isotype: IgG2b
 Species Reactivity: Reacts with human. Others not known.
 Positive Control: MOLT-4 cells. Pancreas, Kidney or Placenta.
 Specificity: Recognizes a protein of 165-170kDa, identified as cystic fibrosis transmembrane conductance regulator (CFTR).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0500-C.1	0.1 ml
RA0500-C.5	0.5 ml
RA0500-C1	1 ml

CFTR (Cystic Fibrosis Transmembrane Conductance Regulator); Clone CFTR/1775R (Concentrate)

Species: Rabbit
 Immunogen: Recombinant human CFTR fragment (aa258-385) (exact sequence is proprietary).
 Clone: CFTR/1775R
 Isotype: IgG, kappa
 Species Reactivity: Reacts with human. Others not known.
 Positive Control: MOLT-4 cells. Pancreas, Kidney or Placenta.
 Specificity: Recognizes a protein of 165-170kDa, identified as cystic fibrosis transmembrane conductance regulator (CFTR).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0503-C.1	0.1 ml
RA0503-C.5	0.5 ml
RA0503-C1	1 ml

CFTR (Cystic Fibrosis Transmembrane Conductance Regulator); Clone CFTR/1785 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human CFTR fragment (aa258-385) (exact sequence is proprietary).
 Clone: CFTR/1785
 Isotype: IgG2b
 Species Reactivity: Reacts with human. Others not known.
 Positive Control: MOLT-4 cells. Pancreas, Kidney or Placenta.
 Specificity: Recognizes a protein of 165-170kDa, identified as cystic fibrosis transmembrane conductance regulator (CFTR).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0502-C.1	0.1 ml
RA0502-C.5	0.5 ml
RA0502-C1	1 ml

CFTR (Cystic Fibrosis Transmembrane Conductance Regulator); Clone SPM176 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human full-length CFTR.
 Clone: SPM176
 Isotype: IgG2a
 Species Reactivity: Reacts with human and mouse. Others not known.
 Positive Control: MOLT-4 cells. Pancreas, Kidney or Placenta.
 Specificity: Recognizes a protein of 165-170kDa, identified as cystic fibrosis transmembrane conductance regulator (CFTR).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0499-C.1	0.1 ml
RA0499-C.5	0.5 ml
RA0499-C1	1 ml

Chromogranin A / CHGA (Neuroendocrine Marker); Clone CGA/413 (Concentrate)

Species: Mouse.
 Immunogen: Recombinant human chromogranin A protein.
 Clone: CGA/413
 Isotype: IgG2b, kappa.
 Species Reactivity: Reacts with Human. Does not react with rat.
 Others not known.
 Positive Control: PC12 cells. Adrenal gland, bowel, thyroid, pancreas, or pheochromocytoma.
 Specificity: Recognizes the Chromogranin A protein.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0514-C.1	0.1 ml
RA0514-C.5	0.5 ml
RA0514-C1	1 ml

Chromogranin A / CHGA (Neuroendocrine Marker); Clone CGA/414 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human chromogranin A protein
 Clone: CGA/414
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: PC12 cells. Adrenal gland, bowel, thyroid, pancreas, or pheochromocytoma.
 Specificity: Chromogranin A is present in neuroendocrine cells throughout the body, including the neuroendocrine cells of the large and small intestine, adrenal medulla and pancreatic islets. It is an excellent marker for carcinoid tumors, pheochromocytomas, paragangliomas, and other neuroendocrine tumors.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0090-C.1	0.1 ml
RA0090-C.5	0.5 ml

Chromogranin A / CHGA (Neuroendocrine Marker); Clone CHGA/1731R (Concentrate)

Species: Rabbit.
 Immunogen: Recombinant human full-length Chromogranin A protein.
 Clone: CHGA/1731R
 Isotype: IgG, kappa.
 Species Reactivity: Reacts with human. Does not react with rat. Others not known.
 Positive Control: PC12 cells. Adrenal gland, bowel, parathyroid, pancreas, or pheochromocytoma.
 Specificity: Recognizes the Chromogranin A protein.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0515-C.1	0.1 ml
RA0515-C.5	0.5 ml
RA0515-C1	1 ml

Chromogranin A / CHGA (Neuroendocrine Marker); Clone CHGA/1773R (Concentrate)

Species: Rabbit.
 Immunogen: Recombinant human full-length Chromogranin A protein.
 Clone: CHGA/1773R
 Isotype: Rabbit / IgG, kappa.
 Species Reactivity: Reacts with human. Does not react with rat. Others not known.
 Positive Control: PC12 cells. Adrenal gland, bowel, parathyroid, pancreas, or pheochromocytoma.
 Specificity: Recognizes the Chromogranin A protein.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0516-C.1	0.1 ml
RA0516-C.5	0.5 ml
RA0516-C1	1 ml

Chromogranin A / CHGA (Neuroendocrine Marker); Clone CHGA/1815R (Concentrate)

Species: Rabbit.
 Immunogen: Recombinant full-length human CHGA protein.
 Clone: CHGA/1815R
 Isotype: IgG, kappa.
 Species Reactivity: Reacts with human. Does not react with rat. Others not known.
 Positive Control: PC12 cells. Adrenal gland, bowel, thyroid, pancreas, or pheochromocytoma.
 Specificity: Recognizes the Chromogranin A protein.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0517-C.1	0.1 ml
RA0517-C.5	0.5 ml
RA0517-C1	1 ml

Chromogranin A / CHGA (Neuroendocrine Marker); Clone CHGA/765 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human CHGA protein
 Clone: CHGA/765
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: PC12 cells. Adrenal gland, bowel, thyroid, pancreas, or pheochromocytoma.
 Specificity: Chromogranin A is present in neuroendocrine cells throughout the body, including the neuroendocrine cells of the large and small intestine, adrenal medulla and pancreatic islets. It is an excellent marker for carcinoid tumors, pheochromocytomas, paragangliomas, and other neuroendocrine tumors.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0096-C.1	0.1 ml
RA0096-C.5	0.5 ml

Chromogranin A / CHGA (Neuroendocrine Marker); Clone CHGA/777 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human CHGA protein
 Clone: CHGA/777
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: PC12 cells. Adrenal gland, bowel, thyroid, pancreas, or pheochromocytoma.
 Specificity: Chromogranin A is present in neuroendocrine cells throughout the body, including the neuroendocrine cells of the large and small intestine, adrenal medulla and pancreatic islets. It is an excellent marker for carcinoid tumors, pheochromocytomas, paragangliomas, and other neuroendocrine tumors.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0097-C.1	0.1 ml
RA0097-C.5	0.5 ml

Chromogranin A / CHGA (Neuroendocrine Marker); Clone CHGA/798 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human CHGA protein
 Clone: CHGA/798
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: PC12 cells. Adrenal gland, bowel, thyroid, pancreas, or pheochromocytoma.
 Specificity: Chromogranin A is present in neuroendocrine cells throughout the body, including the neuroendocrine cells of the large and small intestine, adrenal medulla and pancreatic islets. It is an excellent marker for carcinoid tumors, pheochromocytomas, paragangliomas, and other neuroendocrine tumors.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0098-C.1	0.1 ml
RA0098-C.5	0.5 ml

Chromogranin A / CHGA (Neuroendocrine Marker); Clone LK2H10 & PHE5 (Concentrate)

Species: Mouse
 Immunogen: Human pheochromocytoma (LK2H10 & PHE5)
 Clone: LK2H10 & PHE5
 Isotype: IgG1, kappa (LK2H10 & PHE5)
 Species Reactivity: Human, Monkey, Pig, Mouse and Rat.
 Others not known.
 Positive Control: PC12 cells. Adrenal gland, bowel, thyroid, pancreas, or pheochromocytoma.
 Specificity: Chromogranin A is present in neuroendocrine cells throughout the body, including the neuroendocrine cells of the large and small intestine, adrenal medulla and pancreatic islets. It is an excellent marker for carcinoid tumors, pheochromocytomas, paragangliomas, and other neuroendocrine tumors.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0094-C.1	0.1 ml
RA0094-C.5	0.5 ml

Chromogranin A / CHGA (Neuroendocrine Marker); Clone LK2H10 (Concentrate)

Species: Mouse
 Immunogen: Human pheochromocytoma
 Clone: LK2H10
 Isotype: IgG1, kappa
 Species Reactivity: Human, Monkey, Pig, Mouse and Rat. Does not react with Guinea Pig, Sheep & Rabbit. Others not known.
 Positive Control: PC12 cells. Adrenal gland, bowel, thyroid, pancreas, or pheochromocytoma.
 Specificity: Chromogranin A is present in neuroendocrine cells throughout the body, including the neuroendocrine cells of the large and small intestine, adrenal medulla and pancreatic islets. It is an excellent marker for carcinoid tumors, pheochromocytomas, paragangliomas, and other neuroendocrine tumors.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0091-C.1	0.1 ml
RA0091-C.5	0.5 ml

Chromogranin A / CHGA (Neuroendocrine Marker); Clone LK2H10, PHE5 & CGA/414 (Concentrate)

Species: Mouse
 Immunogen: Human pheochromocytoma (LK2H10 & PHE5) & recombinant human chromogranin A protein (CGA414).
 Clone: LK2H10, PHE5 & CGA/414
 Isotype: IgG1, kappa (LK2H10, PHE5 & CGA/414)
 Species Reactivity: Human, Monkey, Pig, Mouse and Rat.
 Others not known.
 Positive Control: PC12 cells. Adrenal gland, bowel, thyroid, pancreas, or pheochromocytoma.
 Specificity: Chromogranin A is present in neuroendocrine cells throughout the body, including the neuroendocrine cells of the large and small intestine, adrenal medulla and pancreatic islets. It is an excellent marker for carcinoid tumors, pheochromocytomas, paragangliomas, and other neuroendocrine tumors.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0095-C.1	0.1 ml
RA0095-C.5	0.5 ml

Chromogranin A / CHGA (Neuroendocrine Marker); Clone PHE5 (Concentrate)

Species: Mouse
 Immunogen: Human pheochromocytoma
 Clone: PHE5
 Isotype: IgG1, kappa
 Species Reactivity: Human, Monkey. Does not react with Mouse and Rat. Others not known.
 Positive Control: PC12 cells. Adrenal gland, bowel, thyroid, pancreas, or pheochromocytoma.
 Specificity: Chromogranin A is present in neuroendocrine cells throughout the body, including the neuroendocrine cells of the large and small intestine, adrenal medulla and pancreatic islets. It is an excellent marker for carcinoid tumors, pheochromocytomas, paragangliomas, and other neuroendocrine tumors.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0093-C.1	0.1 ml
RA0093-C.5	0.5 ml

Chromogranin A / CHGA (Neuroendocrine Marker); Clone SPM339 (Concentrate)

Species: Mouse
 Immunogen: Human pheochromocytoma
 Clone: SPM339
 Isotype: IgG1, kappa
 Species Reactivity: Human, Monkey, Pig, Mouse and Rat. Does not react with guinea pig, sheep & rabbit. Others not known.
 Positive Control: PC12 cells. Adrenal gland, bowel, thyroid, pancreas, or pheochromocytoma.
 Specificity: Recognizes the Chromogranin A protein.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0512-C.1	0.1 ml
RA0512-C.5	0.5 ml
RA0512-C1	1 ml

Chromogranin A / CHGA (Neuroendocrine Marker); Clone SPM553 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human Chromogranin A protein
 Clone: SPM553
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: PC12 cells. Adrenal gland, bowel, thyroid, pancreas, or pheochromocytoma.
 Specificity: Recognizes the Chromogranin A protein.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0511-C.1	0.1 ml
RA0511-C.5	0.5 ml
RA0511-C1	1 ml

Chromogranin A / CHGA (Neuroendocrine Marker); Clone SPM585 (Concentrate)

Species: Mouse.
 Immunogen: Human pheochromocytoma.
 Clone: SPM585
 Isotype: IgG1, kappa.
 Species Reactivity: Human & monkey. Does not react with mouse & rat. Others not known.
 Positive Control: PC12 cells. Adrenal gland, bowel, thyroid, pancreas, or pheochromocytoma.
 Specificity: Recognizes the Chromogranin A protein.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0513-C.1	0.1 ml
RA0513-C.5	0.5 ml
RA0513-C1	1 ml

Chromogranin A / CHGA (Neuroendocrine Marker); Clones CGA/413 & CHGA/777 & CHGA/798 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human chromogranin A protein.
 Clone: CGA/413 & CHGA/777 & CHGA/798
 Isotype: IgG's
 Species Reactivity: Human, monkey, pig, mouse, and rat. Others not known.
 Positive Control: PC12 cells. Adrenal gland, bowel, thyroid, pancreas, or pheochromocytoma.
 Specificity: Recognizes the Chromogranin A protein.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0510-C.1	0.1 ml
RA0510-C.5	0.5 ml
RA0510-C1	1 ml

Clathrin, Light Chain; Clone CLC/1421 (Concentrate)

Species: Mouse.
 Immunogen: Purified recombinant N-terminal fragment of human Clathrin Light Chain.
 Clone: CLC/1421
 Isotype: IgG2b, kappa.
 Species Reactivity: Reacts with human. Others not known.
 Positive Control: HeLa cells. Placenta or prostate carcinoma.
 Specificity: Recognizes proteins of 31-44kDa, which are identified as Clathrin Light Chains (both A & B).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0524-C.1	0.1 ml
RA0524-C.5	0.5 ml
RA0524-C1	1 ml

c-Myc Oncoprotein; Clone 9E10.3 (Concentrate)

Species: Mouse
 Immunogen: A synthetic peptide, corresponding to aa 408-439 (AEEQLISEEDLLRKRREQLKHKLEQLRNCSA) from the C-terminus of human c-Myc, coupled to KLH.
 Clone: 9E10.3
 Isotype: IgG1, kappa
 Species Reactivity: Human. Does not react with Mouse, Rat, or Chicken. Others not tested.
 Positive Control: HL-60 cells or breast carcinoma.
 Specificity: This antibody recognizes a transcription factor of 64-67kDa, identified as c-Myc. Its epitope spans between aa 410-419 (EQKLISEEDL) which is a specific portion of an alpha helical region of the human c-Myc protein. This antibody shows no cross-reaction with v-Myc.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0226-C.1	0.1 ml
RA0226-C.5	0.5 ml

c-Myc Oncoprotein; Clone MYC909 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human c-Myc protein
 Clone: MYC909
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not tested.
 Positive Control: HL-60 cells or breast carcinoma.
 Specificity: This antibody recognizes a transcription factor of 64-67kDa, identified as c-Myc. Its epitope spans between aa 410-419 (EQKLISEEDL) which is a specific portion of an alpha helical region of the human c-Myc protein. This antibody shows no cross-reaction with v-Myc.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0227-C.1	0.1 ml
RA0227-C.5	0.5 ml

Complement 4d (C4d) (Acute Humoral Rejection Marker); Clone C4D204 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human Complement 4d protein
 Clone: C4D204
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Rejected Renal Transplant Tissue
 Specificity: This Mab is specific to Complement 4d (C4d) and it reacts with the secreted as well as cell-bound C4d.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0025-C.1	0.1 ml
RA0025-C.5	0.5 ml

CPS1 / Carbamoyl-Phosphate Synthetase (Hepatic Mitochondrial Marker); Clone CPS1/1022 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human CPS1 protein
 Clone: CPS1/1022
 Isotype: IgG1
 Species Reactivity: Human and Dog. Others not known.
 Positive Control: HeLa cells. Liver or Hepatocellular Carcinoma (HCC).
 Specificity: This antibody recognizes a protein of 165kDa, identified as carbamoyl phosphate synthetase 1 (CPS1).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0434-C.1	0.1 ml
RA0434-C.5	0.5 ml
RA0434-C1	1 ml

CPS1 / Carbamoyl-Phosphate Synthetase (Hepatocellular Marker); Clone SPM615 (Concentrate)

Species: Mouse.
 Immunogen: Recombinant human CPS1 protein.
 Clone: SPM615
 Isotype: IgG1
 Species Reactivity: Reacts with human and dog. Others not known.
 Positive Control: HeLa cells, liver, or hepatocellular carcinoma (HCC).
 Specificity: This monoclonal antibody recognizes a protein of 165kDa, identified as carbamoyl phosphate synthetase 1 (CPS1).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0535-C.1	0.1 ml
RA0535-C.5	0.5 ml
RA0535-C1	1 ml

Creatine Kinase-BB (CK-BB); Clone 2ba6 (Concentrate)

Species: Mouse.
 Immunogen: Human CKBB protein.
 Clone: 2ba6
 Isotype: IgG1, kappa.
 Species Reactivity: Reacts with human. Predicted to react with chimpanzee, rhesus monkey, dog, cow, mouse, rat, chicken, zebrafish, and frog. Others not tested.
 Positive Control: Cerebellum.
 Specificity: This monoclonal antibody recognizes the CKBB isoenzyme and does not react with the B subunit in CKMB. It shows minimal reactivity with other human serum proteins.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0519-C.1	0.1 ml
RA0519-C.5	0.5 ml
RA0519-C1	1 ml

Cyclin B1 (G2- & M-phase Cyclin); Clone CCNB1/1098 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human CCNB1 protein
 Clone: CCNB1/1098
 Isotype: IgG1, kappa
 Species Reactivity: Human and Mouse. Others not known.
 Positive Control: Any human cell line in logarithmic growth phase, tonsil, or testis.
 Specificity: This antibody recognizes a protein of 55-62kDa, identified as cyclin B1.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0429-C.5	0.5 ml

Cyclin D1 (G1-Cyclin & Mantle Cell Lymphoma Marker); Clone CCND1/3370R (Concentrate)

Species: Rabbit
 Immunogen: Synthetic peptide corresponding to residues within aa270-295 of Cyclin D1.
 Clone: CCND1/3370R
 Isotype: IgG
 Species Reactivity: Human.
 Positive Control: Human mantle cell lymphoma, breast or bladder carcinomas.
 Specificity: Recognizes a protein of 36kDa, identified as cyclin D1.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0483-C.1	0.1 ml
RA0483-C.5	0.5 ml
RA0483-C1	1 ml

Cyclin D1 (G1-Cyclin & Mantle Cell Marker); Clone CCND1/809 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human CCND1 protein
 Clone: CCND1/809
 Isotype: IgG2a, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: T47D, ZR75, BT474, SKBR3, MCF-7, MDA-MB-453, HT29, Ramos, Jurkat or A431 cells. ~60% of mantle cell lymphomas and ~40% of breast carcinomas are positive.
 Specificity: This antibody recognizes a protein of 36kDa, identified as cyclin D1.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0426-C.1	0.1 ml
RA0426-C.5	0.5 ml
RA0426-C1	1 ml

Cytochrome c (Mitochondrial Marker); Clone 7H8.2C12 (Concentrate)

Species: Mouse
 Immunogen: Synthetic peptides corresponding to amino acids 1-80, 81-104 and 66-104 of pigeon cytochrome c.
 Clone: 7H8.2C12
 Isotype: IgG2b, kappa
 Species Reactivity: Human, Mouse, Rat, Horse, Dog, Pigeon, Frog, and Drosophila. Others not known.
 Positive Control: K-562, HL-60, Jurkat, NIH3T3, or PC-3 cells. Cardiac muscle.
 Specificity: This antibody recognizes an epitope within amino acids 93-104 of pigeon cytochrome c.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0359-C.1	0.1 ml
RA0359-C.5	0.5 ml

Cytochrome c (Mitochondrial Marker); Clone CTC05 (Concentrate)

Species: Mouse
 Immunogen: Recombinant cytochrome c protein
 Clone: CTC05
 Isotype: IgG2b, kappa
 Species Reactivity: Human, Mouse, Rat, Horse, Dog, Pigeon, Frog, and Drosophila. Others not known.
 Positive Control: K-562, HL-60, Jurkat, NIH3T3, or PC-3 cells. Cardiac muscle.
 Specificity: Recognizes cytochrome c in a wide range of species, from Drosophila to human.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0360-C.1	0.1 ml
RA0360-C.5	0.5 ml

Cytokeratin 10 (Suprabasal Epithelial Marker); Clone AE20 (Concentrate)

Species: Mouse
 Immunogen: Human cytokeratin 10
 Clone: AE20
 Isotype: IgG1, kappa
 Species Reactivity: Human and Mouse. Others not known.
 Positive Control: A431, HeLa, MCF7 cells or Esophagus.
 Specificity: This antibody recognizes a protein of 56.5kDa, identified as cytokeratin 10 (CK10).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0179-C.1	0.1 ml
RA0179-C.5	0.5 ml

Cytokeratin 10 (Suprabasal Epithelial Marker); Clone DE-K10 (Concentrate)

Species: Mouse
 Immunogen: Cytoskeletal preparation extracted from human ectocervical epithelium.
 Clone: DE-K10
 Isotype: IgG1, kappa
 Species Reactivity: Human, Dog and Cat. Others not known.
 Positive Control: Esophagus or Tonsil. A431, HeLa, MCF7 cells.
 Specificity: This antibody recognizes a protein of 56.5kDa identified as Cytokeratin 10.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0460-C.1	0.1 ml
RA0460-C.5	0.5 ml
RA0460-C1	1 ml

Cytokeratin 10 (Suprabasal Epithelial Marker); Clone KRT10/844 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human KRT10 protein
 Clone: KRT10/844
 Isotype: IgG1, kappa
 Species Reactivity: Human and Mouse. Others not known.
 Positive Control: A431, HeLa, MCF7 cells or Esophagus.
 Specificity: This antibody recognizes a protein of 56.5kDa, identified as cytokeratin 10 (CK10).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0180-C.1	0.1 ml
RA0180-C.5	0.5 ml

**Cytokeratin 14 (KRT14) (Squamous Cell Marker);
Clone LL002 (Concentrate)**

Species: Mouse

Immunogen: A synthetic peptide of 15 amino acids from the C-terminus of human keratin 14.

Clone: LL002

Isotype: IgG3

Species Reactivity: Human, Mouse, and Rat. Others not known.

Positive Control: A431 cells. Skin or Squamous cell carcinoma.

Specificity: Anti-CK14 is useful in differentiating squamous cell carcinomas from poorly differentiated epithelial tumors. Anti-CK14 is one of the specific basal markers for distinguishing between basal and non-basal subtypes of breast carcinomas.

Anti-CK14 is also a good marker for differentiation of intraductal from invasive salivary duct carcinoma by the positive staining of basal cells surrounding the in-situ neoplasm as well as for the differentiation of benign prostate from prostate carcinoma.

Furthermore, this antibody has been useful in separating oncocytic tumors of the kidney from its renal mimics, and in identifying metaplastic carcinomas of the breast.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0181-C.1	0.1 ml
RA0181-C.5	0.5 ml

**Cytokeratin 17 (KRT17) (Basal Epithelial Marker);
Clone E3 (Ks17.E3) (Concentrate)**

Species: Mouse

Immunogen: The cytoskeletal fraction of rat colon epithelium

Clone: E3 (Ks17.E3)

Isotype: IgG2b, kappa

Species Reactivity: Human, Rat, Cow, Goat and Pig. Others not known.

Positive Control: T24 cells or skin.

Specificity: This antibody to CK17 is an excellent tool to distinguish myoepithelial cells from luminal epithelium of various glands such as mammary, sweat and salivary. CK17 is expressed in epithelial cells of various origins, such as bronchial epithelial cells and skin appendages. It may be considered as an "epithelial stem cell" marker because the CK17 antibody marks basal cell differentiation.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0182-C.1	0.1 ml
RA0182-C.5	0.5 ml

**Cytokeratin 17 (KRT17) (Basal Epithelial Marker);
Clone KRT17/778 (Concentrate)**

Species: Mouse

Immunogen: The cytoskeletal fraction of rat colon epithelium

Clone: KRT17/778

Isotype: IgG2b, kappa

Species Reactivity: Human, Rat, Cow, Goat and Pig. Others not known.

Positive Control: T24 cells or skin.

Specificity: This antibody to CK17 is an excellent tool to distinguish myoepithelial cells from luminal epithelium of various glands such as mammary, sweat and salivary. CK17 is expressed in epithelial cells of various origins, such as bronchial epithelial cells and skin appendages. It may be considered as an "epithelial stem cell" marker because the CK17 antibody marks basal cell differentiation.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0183-C.1	0.1 ml
RA0183-C.5	0.5 ml

Cytokeratin 18 (KRT18); Clone DA7 (Concentrate)

Species: Mouse

Immunogen: Human breast cancer PMC 42 cells

Clone: DA7

Isotype: IgG1, kappa

Species Reactivity: Human. Does not react with Mouse, Rat, Sheep, Hamster, Cow, Dog and Pig. Others not known.

Positive Control: MCF-7, HeLa cells, or Breast Cancer.

Specificity: This antibody reacts with a wide variety of simple epithelia. It does not react with stratified squamous epithelia. It reacts with epithelial tumors of the gastrointestinal tract, lung, breast, pancreas, ovary, and thyroid.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0185-C.1	0.1 ml
RA0185-C.5	0.5 ml

Cytokeratin 18 (KRT18); Clone DC10 (Concentrate)

Species: Mouse

Immunogen: Human breast cancer PMC 42 cells

Clone: DC10

Isotype: IgG1

Species Reactivity: Human. Does not react with Mouse, Rat, Sheep, Hamster, Cow, Dog and Pig. Others not known.

Positive Control: MCF-7, HeLa, A431 cells or Breast Cancer.

Specificity: This antibody reacts with a wide variety of simple epithelia. It does not react with stratified squamous epithelia. It reacts with epithelial tumors of the gastrointestinal tract, lung, breast, pancreas, ovary, and thyroid.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0184-C.1	0.1 ml
RA0184-C.5	0.5 ml

Cytokeratin 18 (KRT18); Clone DE-K18 (Concentrate)

Species: Mouse
 Immunogen: Cytoskeletal preparation extracted from the human vulvar squamous carcinoma cell line A431
 Clone: DE-K18
 Isotype: IgG1, kappa
 Species Reactivity: Human, Dog and Cat. Others not known.
 Positive Control: MCF-7, HeLa cells, or Breast Cancer.
 Specificity: This antibody reacts with a wide variety of simple epithelia. It does not react with stratified squamous epithelia. It reacts with epithelial tumors of the gastrointestinal tract, lung, breast, pancreas, ovary, and thyroid.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0186-C.1	0.1 ml
RA0186-C.5	0.5 ml

Cytokeratin 18 (KRT18); Clone KRT18/834 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human KRT18 protein
 Clone: KRT18/834
 Isotype: IgG1
 Species Reactivity: Human. Does not react with Mouse, Rat, Sheep, Hamster, Cow, Dog and Pig. Others not known.
 Positive Control: MCF-7, HeLa, A431 cells, or Breast Cancer.
 Specificity: This antibody reacts with a wide variety of simple epithelia. It does not react with stratified squamous epithelia. It reacts with epithelial tumors of the gastrointestinal tract, lung, breast, pancreas, ovary, and thyroid.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0187-C.1	0.1 ml
RA0187-C.5	0.5 ml

Cytokeratin 18 (KRT18); Clone KRT18/835 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human KRT18 protein
 Clone: KRT18/835
 Isotype: IgG1
 Species Reactivity: Human. Does not react with Mouse, Rat, Sheep, Hamster, Cow, Dog and Pig. Others not known.
 Positive Control: MCF-7, HeLa, A431 cells, or Breast Cancer.
 Specificity: This antibody reacts with a wide variety of simple epithelia. It does not react with stratified squamous epithelia. It reacts with epithelial tumors of the gastrointestinal tract, lung, breast, pancreas, ovary, and thyroid.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0188-C.1	0.1 ml
RA0188-C.5	0.5 ml

Cytokeratin 18 (KRT18); Clone KRT18/836 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human KRT18 protein
 Clone: KRT18/836
 Isotype: IgG1
 Species Reactivity: Human, Dog, and Cat. Others not known.
 Positive Control: MCF-7, HeLa, A431 cells, or Breast Cancer.
 Specificity: This antibody reacts with a wide variety of simple epithelia. It does not react with stratified squamous epithelia. It reacts with epithelial tumors of the gastrointestinal tract, lung, breast, pancreas, ovary, and thyroid.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0189-C.1	0.1 ml
RA0189-C.5	0.5 ml

Cytokeratin 19 (KRT19) (Pancreatic Stem Cell Marker); Clone A53-B/A2.26 & BA17 (Concentrate)

Species: Mouse
 Immunogen: Human breast cancer MCF-7 cells (A53-B/A2); Human mammary epithelial organoids (BA17)
 Clone: A53-B/A2.26 & BA17
 Isotype: IgG2a, kappa (A53-B/A2); IgG1, kappa (BA17)
 Species Reactivity: Human and Mouse. Others not known.
 Positive Control: MCF-7, HeLa, Hep-G2 cells, breast cancer.
 Specificity: This antibody reacts with the rod domain of human cytokeratin-19 (CK19), a polypeptide of 40kDa.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0192-C.1	0.1 ml
RA0192-C.5	0.5 ml

Cytokeratin 19 (KRT19) (Pancreatic Stem Cell Marker); Clone A53-B/A2.26 (Ks19.1) (Concentrate)

Species: Mouse
 Immunogen: Human breast cancer MCF-7 cells
 Clone: A53-B/A2.26 (Ks19.1)
 Isotype: IgG2a, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: MCF-7, HeLa, Hep-G2 cells, breast cancer.
 Specificity: This antibody reacts with the rod domain of human cytokeratin-19 (CK19), a polypeptide of 40kDa. Its epitope maps between amino acids 312-335.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0190-C.1	0.1 ml
RA0190-C.5	0.5 ml

Cytokeratin 19 (KRT19) (Pancreatic Stem Cell Marker); Clone BA17 (Concentrate)

Species: Mouse
 Immunogen: Human mammary epithelial organoids.
 Clone: BA17
 Isotype: IgG1, kappa
 Species Reactivity: Human and Mouse. Others not known.
 Positive Control: MCF-7, HeLa cells, breast cancer.
 Specificity: This antibody reacts with the rod domain of human cytokeratin-19 (CK19), a polypeptide of 40kDa.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0191-C.1	0.1 ml
RA0191-C.5	0.5 ml

Cytokeratin 19 (KRT19) (Pancreatic Stem Cell Marker); Clone KRT19/799 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human KRT19 protein
 Clone: KRT19/799
 Isotype: IgG2a, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: MCF-7, HeLa, Hep-G2 cells, breast cancer.
 Specificity: This antibody reacts with human cytokeratin-19 (CK19), a polypeptide of 40kDa.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0193-C.1	0.1 ml
RA0193-C.5	0.5 ml

Cytokeratin 19 (KRT19) (Pancreatic Stem Cell Marker); Clone KRT19/800 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human KRT19 protein
 Clone: KRT19/800
 Isotype: IgG1, kappa
 Species Reactivity: Human and Mouse. Others not known.
 Positive Control: MCF-7, HeLa cells, breast cancer.
 Specificity: This antibody reacts with cytokeratin-19 (CK19), a polypeptide of 40kDa.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0194-C.1	0.1 ml
RA0194-C.5	0.5 ml

Cytokeratin 7 (Glandular and Transitional Epithelial Marker); Clone K72.7 (Concentrate)

Species: Mouse
 Immunogen: Semi-purified cytokeratin preparation.
 Clone: K72.7
 Isotype: IgG1
 Species Reactivity: Human. Others not known.
 Positive Control: HeLa cells. Carcinoma of ovary, lung, cervix, or breast.
 Specificity: This antibody recognizes an intermediate filament protein (IFP) of 55kDa, which is identified as cytokeratin 7. This antibody is highly specific to cytokeratin 7 and shows no cross-reaction with other IFPs.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0170-C.1	0.1 ml
RA0170-C.5	0.5 ml

Cytokeratin 7 (Glandular and Transitional Epithelial Marker); Clone KRT7/760 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human KRT7 protein
 Clone: KRT7/760
 Isotype: IgG1
 Species Reactivity: Human. Others not known.
 Positive Control: HeLa cells. Carcinoma of ovary, lung, cervix, or breast.
 Specificity: This antibody recognizes an intermediate filament protein (IFP) of 55kDa, which is identified as cytokeratin 7. This antibody is highly specific to cytokeratin 7 and shows no cross-reaction with other IFPs.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0171-C.1	0.1 ml
RA0171-C.5	0.5 ml

Cytokeratin 7 (Glandular and Transitional Epithelial Marker); Clone OV-TL12/30 & K72.7 (Concentrate)

Species: Mouse
 Immunogen: OTN 11, ovarian carcinoma cell line (OV-TL12/30); Semi-purified cytokeratin preparation (K72.7)
 Clone: OV-TL12/30 & K72.7
 Isotype: IgG1 (OV-TL12/30 & K72.7)
 Species Reactivity: Human. Others not known.
 Positive Control: HeLa cells. Carcinoma of ovary, lung, cervix, or breast.
 Specificity: This antibody recognizes an intermediate filament protein (IFP) of 55kDa, which is identified as cytokeratin 7. This antibody is highly specific to cytokeratin 7 and shows no cross-reaction with other IFPs.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0172-C.1	0.1 ml
RA0172-C.5	0.5 ml

Cytokeratin 7 (Glandular and Transitional Epithelial Marker); Clone OV-TL12/30 (Concentrate)

Species: Mouse
 Immunogen: OTN 11, ovarian carcinoma cell line
 Clone: OV-TL12/30
 Isotype: IgG1
 Species Reactivity: Human. Others not known.
 Positive Control: HeLa cells. Carcinoma of ovary, lung, cervix, or breast.
 Specificity: This antibody recognizes an intermediate filament protein (IFP) of 55kDa, which is identified as cytokeratin 7. This antibody is highly specific to cytokeratin 7 and shows no cross-reaction with other IFPs.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0169-C.1	0.1 ml
RA0169-C.5	0.5 ml

Cytokeratin 8 (KRT8); Clone 34BH11 (Concentrate)

Species: Mouse

Immunogen: Cytoskeletal extract of a human hepatocellular carcinoma cell line (Hep3B)

Clone: 34BH11

Isotype: IgM, kappa

Species Reactivity: Human, Monkey, and Rabbit. Others not known.

Positive Control: MCF-7 or A431 cells. Skin, colon, lung, or breast carcinoma.

Specificity: Anti-CK8 does not react with skeletal muscle or nerve cells. Epithelioid sarcoma, chordoma, and adamantinoma show strong positivity corresponding to that of simple epithelia (with antibodies against CK8, CK18 and CK19). Reportedly, anti-CK8 is useful for the differentiation of lobular ("ring-like, perinuclear") from ductal ("peripheral-predominant") carcinoma of the breast.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0178-C.1	0.1 ml
RA0178-C.5	0.5 ml

Cytokeratin 8 (KRT8); Clone H1 & TS1 (Concentrate)

Species: Mouse

Immunogen: Cytoskeleton preparation containing cytokeratin 8 (H1); Keratin preparation from a human carcinoma (TS1).

Clone: H1 & TS1

Isotype: IgG1 (H1); IgG1 (TS1).

Species Reactivity: Human, Rat and Zebrafish. Others not known.

Positive Control: MCF-7 or A431 cells. Skin, colon, lung, or breast carcinoma.

Specificity: Anti-CK8 does not react with skeletal muscle or nerve cells. Epithelioid sarcoma, chordoma, and adamantinoma show strong positivity corresponding to that of simple epithelia (with antibodies against CK8, CK18 and CK19). Reportedly, anti-CK8 is useful for the differentiation of lobular ("ring-like, perinuclear") from ductal ("peripheral-predominant") carcinoma of the breast.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0176-C.1	0.1 ml
RA0176-C.5	0.5 ml

Cytokeratin 8 (KRT8); Clone H1 (Concentrate)

Species: Mouse

Immunogen: Cytoskeleton preparation containing cytokeratin 8

Clone: H1

Isotype: IgG1

Species Reactivity: Human, Rat, Zebrafish. Others not known.

Positive Control: MCF-7 or A431 cells. Skin, colon, lung, or breast carcinoma.

Specificity: Anti-CK8 does not react with skeletal muscle or nerve cells. Epithelioid sarcoma, chordoma, and adamantinoma show strong positivity corresponding to that of simple epithelia (with antibodies against CK8, CK18 and CK19). Reportedly, anti-CK8 is useful for the differentiation of lobular ("ring-like, perinuclear") from ductal ("peripheral-predominant") carcinoma of the breast.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0173-C.1	0.1 ml
RA0173-C.5	0.5 ml

Cytokeratin 8 (KRT8); Clone K8/383 (Concentrate)

Species: Mouse

Immunogen: Recombinant human cytokeratin 8 protein

Clone: K8/383

Isotype: IgG1

Species Reactivity: Human, Rat, Zebrafish. Others not known.

Positive Control: MCF-7 or A431 cells. Skin, colon, lung, or breast carcinoma.

Specificity: Anti-CK8 does not react with skeletal muscle or nerve cells. Epithelioid sarcoma, chordoma, and adamantinoma show strong positivity corresponding to that of simple epithelia (with antibodies against CK8, CK18 and CK19). Reportedly, anti-CK8 is useful for the differentiation of lobular ("ring-like, perinuclear") from ductal ("peripheral-predominant") carcinoma of the breast.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0174-C.1	0.1 ml
RA0174-C.5	0.5 ml

Cytokeratin 8 (KRT8); Clone KRT8/818 (Concentrate)

Species: Mouse

Immunogen: Recombinant human KRT8 protein

Clone: KRT8/818

Isotype: IgG1, kappa

Species Reactivity: Human. Others not known.

Positive Control: MCF-7 or A431 cells. Skin, colon, lung, or breast carcinoma.

Specificity: Anti-CK8 does not react with skeletal muscle or nerve cells. Epithelioid sarcoma, chordoma, and adamantinoma show strong positivity corresponding to that of simple epithelia (with antibodies against CK8, CK18 and CK19). Reportedly, anti-CK8 is useful for the differentiation of lobular ("ring-like, perinuclear") from ductal ("peripheral-predominant") carcinoma of the breast.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0177-C.1	0.1 ml
RA0177-C.5	0.5 ml

Cytokeratin 8 (KRT8); Clone TS1 (Concentrate)

Species: Mouse

Immunogen: Keratin preparation from a human carcinoma

Clone: TS1

Isotype: IgG1, kappa

Species Reactivity: Human. Does not react with Rat. Others not known.

Positive Control: MCF-7 or A431 cells. Skin, colon, lung, or breast carcinoma.

Specificity: The epitope of this antibody is located between aa 343-357. Anti-CK8 does not react with skeletal muscle or nerve cells. Epithelioid sarcoma, chordoma, and adamantinoma show strong positivity corresponding to that of simple epithelia (with antibodies against CK8, CK18 and CK19). Reportedly, anti-CK8 is useful for the differentiation of lobular ("ring-like, perinuclear") from ductal ("peripheral-predominant") carcinoma of the breast.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0175-C.1	0.1 ml
RA0175-C.5	0.5 ml

Cytokeratin 8/18 (Epithelial Marker); Clone C-43 & DC10 (Concentrate)

Species: Mouse
 Immunogen: Cytoskeletal preparation from HeLa epithelioid carcinoma cells (C-43) and PMC-42 breast carcinoma cells of human origin (DC10)
 Clone: C-43 & DC10
 Isotype: IgG1, kappa (C-43); IgG1, kappa (DC10)
 Species Reactivity: Human. Others not known.
 Positive Control: MCF-7, HeLa, PMC-42, or A431 cells. Skin, colon, lung, or breast carcinoma.
 Specificity: This antibody cocktail recognizes all simple epithelia including glandular epithelium, for example, thyroid, female breast, gastrointestinal tract, respiratory tract, and urogenital tract including transitional epithelium. All adenocarcinomas and most squamous carcinomas are positive, but keratinizing squamous carcinomas are usually negative.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0388-C.1	0.1 ml
RA0388-C.5	0.5 ml

Cytokeratin 8/18 (Epithelial Marker); Clone K8.8 & DC10 (Concentrate)

Species: Mouse
 Immunogen: Keratin preparation from a human carcinoma (K8.8); PMC-42 human breast carcinoma cells (DC10)
 Clone: K8.8 & DC10
 Isotype: IgG1, kappa (K8.8); IgG1, kappa (DC10)
 Species Reactivity: Human. Others not known.
 Positive Control: MCF-7 or A431 cells. Skin, Colon, lung or breast carcinoma.
 Specificity: This antibody cocktail recognizes all simple epithelia including glandular epithelium, for example, thyroid, female breast, gastrointestinal tract, respiratory tract, and urogenital tract including transitional epithelium. All adenocarcinomas and most squamous carcinomas are positive, but keratinizing squamous carcinomas are usually negative.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0387-C.1	0.1 ml
RA0387-C.5	0.5 ml

Cytokeratin 8; Clone KRT8/899 (Concentrate)

Species: Mouse
 Immunogen: Cytoskeletal extract of Hep3B hepatocellular carcinoma cell line of human origin
 Clone: KRT8/899
 Isotype: IgM, kappa
 Species Reactivity: Human, Monkey and Rabbit. Others not known.
 Positive Control: MCF-7 or A431 cells. Skin, Colon, lung or breast carcinoma.
 Specificity: This antibody recognizes a 52.5kDa protein known as Cytokeratin 8. Anti-CK8 does not react with skeletal muscle or nerve cells. Epithelioid sarcoma, chordoma, and adamantinoma show strong positivity corresponding to that of simple epithelia (with antibodies against CK8, CK18 and CK19).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0441-C.1	0.1 ml
RA0441-C.5	0.5 ml
RA0441-C1	1 ml

Cytokeratin, Acidic (Type I or LMW) (Epithelial Marker); Clone AE-1 (Concentrate)

Species: Mouse
 Immunogen: Human epidermal keratin
 Clone: AE-1
 Isotype: IgG1, kappa
 Species Reactivity: Human, Monkey, Cow, Dog, Rabbit, Mouse, Rat, Chicken, Turtle. Others not known.
 Positive Control: Skin, Squamous cell carcinoma (SCC).
 Specificity: This antibody recognizes the 56.5kDa (CK10); 50kDa (CK14); 50kDa (CK15); 48kDa (CK16); 40kDa (CK19) keratins of the acidic (Type I or LMW) subfamily.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0385-C.1	0.1 ml
RA0385-C.5	0.5 ml

Cytokeratin, Acidic (Type I or LMW) (Epithelial Marker); Clone KRTL (Concentrate)

Species: Mouse
 Immunogen: Keratin preparation from a human carcinoma
 Clone: KRTL
 Isotype: IgG1, kappa
 Species Reactivity: Human. Shows broad species reactivity.
 Positive Control: Skin, Squamous cell carcinoma (SCC).
 Specificity: This antibody recognizes the 56.5kDa (CK10); 50kDa (CK14); 50kDa (CK15); 48kDa (CK16); 40kDa (CK19) keratins of the acidic (Type I or LMW) subfamily.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0389-C.1	0.1 ml
RA0389-C.5	0.5 ml

Cytokeratin, Basic (Type II or HMW) (Epithelial Marker); Clone 34BE12 (Concentrate)

Species: Mouse
 Immunogen: Solubilized keratin extract from human stratum corneum
 Clone: 34BE12
 Isotype: IgG1, kappa
 Species Reactivity: Human, Mouse, and Rat. Others not known.
 Positive Control: PC12 cells, skin, prostate carcinoma.
 Specificity: This antibody recognizes CK1, CK5, CK10, and CK14. In normal epithelia, it stains stratified epithelia, myoepithelial cells, and basal cells in the prostate gland and bronchi. This antibody shows no reactivity with hepatocytes, pancreatic acinar cells, proximal renal tubules, or endometrial glands; there is no reactivity with cells derived from simple epithelia. Mesenchymal tumors, lymphomas, melanomas, neural tumors, and neuroendocrine tumors are negative with this antibody.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0383-C.1	0.1 ml
RA0383-C.5	0.5 ml

Cytokeratin, Basic (Type II or HMW) (Epithelial Marker); Clone AE-3 (Concentrate)

Species: Mouse
 Immunogen: Human epidermal keratin
 Clone: AE-3
 Isotype: IgG1, kappa
 Species Reactivity: Human, Monkey, Cow, Dog, Rabbit, Mouse, Rat, Chicken. Others not known.
 Positive Control: Epithelial cells, skin or adenocarcinomas.
 Specificity: This antibody recognizes basic (Type II or HMW) cytokeratins, which include 67kDa (CK1); 64kDa (CK3); 59kDa (CK4); 58kDa (CK5); 56kDa (CK6); 52kDa (CK8).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0386-C.1	0.1 ml
RA0386-C.5	0.5 ml

Cytokeratin, Basic (Type II or HMW) (Epithelial Marker); Clone KRTH (Concentrate)

Species: Mouse
 Immunogen: Keratin preparation from a human carcinoma
 Clone: KRTH
 Isotype: IgG1, kappa
 Species Reactivity: Human. Shows broad species reactivity.
 Positive Control: Skin, Adenocarcinomas.
 Specificity: This antibody recognizes basic (Type II or HMW) cytokeratins, which include 67kDa (CK1); 64kDa (CK3); 59kDa (CK4); 58kDa (CK5); 56kDa (CK6); 52kDa (CK8).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0390-C.1	0.1 ml
RA0390-C.5	0.5 ml

Cytokeratin, Multi (Epithelial Marker); Clone C11 (Concentrate)

Species: Mouse
 Immunogen: Keratin-enriched preparation from cultured human A431
 Clone: C11
 Isotype: IgG1
 Species Reactivity: Human, Cow, Rat, Mouse, Guinea pig, Frog, Goat, Marmoset, and Pig. Others not known.
 Positive Control: A431 cells, skin, colon carcinoma.
 Specificity: This antibody recognizes cytokeratins 4, 5, 6, 8, 10, 13, and 18.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0381-C.1	0.1 ml
RA0381-C.5	0.5 ml

Cytokeratin, Pan (Epithelial Marker); Clone AE-1 & AE-3 (Concentrate)

Species: Mouse
 Immunogen: Human epidermal keratin
 Clone: AE-1 & AE-3
 Isotype: IgG1, kappa (AE-1); IgG1, kappa (AE-3)
 Species Reactivity: Human, Monkey, Cow, Dog, Rabbit, Mouse, Rat, Chicken. Others not known.
 Positive Control: Skin, Adeno- or Squamous carcinomas.
 Specificity: This antibody cocktail recognizes acidic (Type I or LMW) and basic (Type II or HMW) cytokeratins, which include 67kDa (CK1); 64kDa (CK3); 59kDa (CK4); 58kDa (CK5); 56kDa (CK6); 52kDa (CK8); 56.5kDa (CK10); 50kDa (CK14); 50kDa (CK15); 48kDa (CK16); 40kDa (CK19). This antibody stains cytokeratins present in normal and abnormal human tissues and has shown high sensitivity in the recognition of epithelial cells and carcinomas.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0382-C.1	0.1 ml
RA0382-C.5	0.5 ml

Cytokeratin, Pan (Epithelial Marker); Clone KRTL & KRTH (Concentrate)

Species: Mouse
 Immunogen: Keratin preparation from a human carcinoma
 Clone: KRTL & KRTH
 Isotype: IgG1, kappa (KRTL); IgG1, kappa (KRTH)
 Species Reactivity: Human. Shows broad species reactivity.
 Positive Control: Skin, Adeno- or Squamous carcinomas.
 Specificity: This antibody cocktail recognizes acidic (Type I or LMW) and basic (Type II or HMW) cytokeratins, which include CK1, CK3, CK4, CK5, CK6, CK8, CK10, CK14, CK15, CK16, and CK19. This antibody stains cytokeratins present in normal and abnormal human tissues and has shown high sensitivity in the recognition of epithelial cells and carcinomas.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0391-C.1	0.1 ml
RA0391-C.5	0.5 ml
RA0391-C1	1 ml

Cytokeratin, pan (Epithelial Marker); Clone PAN-CK (Concentrate)

Species: Mouse
 Immunogen: Human epidermal keratin
 Clone: PAN-CK
 Isotype: IgG's, kappa
 Species Reactivity: Human, Monkey, Cow, Dog, Rabbit, Mouse, Rat, Chicken. Others not known.
 Positive Control: Skin, Adeno- or Squamous carcinomas
 Specificity: This antibody cocktail recognizes acidic (Type I or LMW) and basic (Type II or HMW) cytokeratins, with 67kDa (CK1); 64kDa (CK3); 59kDa (CK4); 58kDa (CK5); 56kDa (CK6); 55kDa (CK7); 52kDa (CK8); 56.5kDa (CK10); 53kDa (CK13); 50kDa (CK14); 50kDa (CK15); 48kDa (CK16); 46kDa (CK17); 45kDa (CK18) and 40kDa (CK19). This antibody stains cytokeratins present in normal and abnormal human tissues and shows high sensitivity in the recognition of epithelial cells and carcinomas.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0430-C.5	0.5 ml

Desmin (Muscle Cell Marker); Clone D33 (Concentrate)

Species: Mouse
 Immunogen: Proteins from human Leiomyoma.
 Clone: D33
 Isotype: IgG1, kappa
 Species Reactivity: Human, Rat, Mouse, Hamster, Chicken.
 Others not known.
 Positive Control: Muscle, Uterus, Leiomyosarcoma or SJRH30 cells.
 Specificity: Desmin, Clone D33 detects cells of normal smooth, skeletal, and cardiac muscles. This antibody reacts with leiomyomas, leiomyosarcoma, rhabdomyomas, rhabdomyosarcoma, and perivascular cells of glomus tumors of the skin.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0459-C.1	0.1 ml
RA0459-C.5	0.5 ml
RA0459-C1	1 ml

Desmin (Muscle Cell Marker); Clone DES/1711 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human full-length desmin protein.
 Clone: DES/1711
 Isotype: IgG1, kappa
 Species Reactivity: Reacts with human, mouse, rat, hamster, and chicken. Others not known.
 Positive Control: SJRH30 Cells. Uterus or Leiomyosarcoma.
 Specificity: Recognizes a 52kDa protein known as Desmin.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0554-C.1	0.1 ml
RA0554-C.5	0.5 ml
RA0554-C1	1 ml

Desmocollin-2/3; Clone 7G6 (Concentrate)

Species: Mouse.
 Immunogen: Human desmocollin-2 extracellular domain (exact sequence is proprietary).
 Clone: 7G6.
 Isotype: IgG1, kappa.
 Species Reactivity: Reacts with human, mouse, and rat. Others not known.
 Positive Control: HeLa cells. Skin.
 Specificity: Recognizes DSC2 and DSC3 proteins.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0562-C.1	0.1 ml
RA0562-C.5	0.5 ml
RA0562-C1	1 ml

Desmoglein-1 (DSG1); Clone DSG1/1733 (Concentrate)

Species: Mouse.
 Immunogen: Recombinant human desmoglein-1 protein fragment corresponding to intracellular domain (exact sequence is proprietary).
 Clone: DSG1/1733.
 Isotype: IgG1, kappa.
 Species Reactivity: Reacts with human. Others not known.
 Positive Control: A431 or A-375 cells. Skin.
 Specificity: Recognizes a protein of ~150kDa, identified as Desmoglein-1 (DSG1).

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0565-C.1	0.1 ml
RA0565-C.5	0.5 ml
RA0565-C1	1 ml

Desmoglein-3 (Squamous Cell Marker); Clone 5G11 (Concentrate)

Species: Mouse.
 Immunogen: Recombinant human DSG3 extracellular protein fragment (exact sequence is proprietary).
 Clone: 5G11.
 Isotype: IgG1, kappa.
 Species Reactivity: Reacts with human. Others not known.
 Positive Control: A431 cells. Lung squamous cell carcinoma.
 Specificity: Recognizes a protein of 130kDa, identified as Desmoglein-3 (DSG3). This monoclonal antibody is highly specific to Desmoglein-3 and does not cross-react with other members of the desmoglein-family.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0571-C.1	0.1 ml
RA0571-C.5	0.5 ml
RA0571-C1	1 ml

Desmoglein-3 (Squamous Cell Marker); Clone DSG3/1535 (Concentrate)

Species: Mouse.
 Immunogen: Recombinant human DSG3 extracellular protein fragment (exact sequence is proprietary).
 Clone: DSG3/1535.
 Isotype: IgG1, kappa.
 Species Reactivity: Reacts with human. Others not known.
 Positive Control: A431 cells. Skin or Lung squamous cell carcinoma.
 Specificity: Recognizes a protein of 130kDa, identified as Desmoglein-3 (DSG3). This monoclonal antibody is highly specific to Desmoglein-3 and does not cross-react with other members of the Desmoglein-family.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0572-C.1	0.1 ml
RA0572-C.5	0.5 ml
RA0572-C1	1 ml

DOG-1 / TMEM16A (Marker for Gastrointestinal Stromal Tumors); Clone DG1/447 & DOG-1.1 (Concentrate)

Species: Mouse

Immunogen: Recombinant human DOG-1 protein (DG1/447); A synthetic peptide from human DOG-1 protein (MSDFVDWVIPDIPKDISQQIHKEKVLMLVLFMREEQDKQQLLETCEK ERQKDEPPCNHHTKACPSLGSPPASHAYHGGVL), conjugated to a carrier protein (DOG-1.1).

Clone: DG1/447 & DOG-1.1

Isotype: IgG1, kappa (DG1/447 & DOG-1.1)

Species Reactivity: Human. Others not known.

Positive Control: Gastrointestinal Stromal Tumor (GIST) or testicular germ cell tumor. Melanocytes in the basal layer of the epidermis and mast cells in the dermis of normal skin.

Specificity: This monoclonal antibody recognizes Human DOG1. It is a sensitive and specific immunohistochemical marker for GIST, comparable with c-Kit, with the additional benefit of detecting c-Kit-negative GISTs. It is also a sensitive marker for unusual GIST subgroups lacking c-Kit or PDGFRA mutations.

Status: RUO

Catalog Number	Volume
RA0364-C.1	0.1 ml
RA0364-C.5	0.5 ml

DOG-1 / TMEM16A (Marker for Gastrointestinal Stromal Tumors); Clone DG1/447 (Concentrate)

Species: Mouse

Immunogen: Recombinant human DOG-1 protein

Clone: DG1/447

Isotype: IgG1, kappa

Species Reactivity: Human. Others not known.

Positive Control: Gastrointestinal Stromal Tumor (GIST) or testicular germ cell tumor. Melanocytes in the basal layer of the epidermis and mast cells in the dermis of normal skin.

Specificity: This monoclonal antibody recognizes Human DOG1.

Status: RUO

Catalog Number	Volume
RA0362-C.1	0.1 ml
RA0362-C.5	0.5 ml

DOG-1 / TMEM16A (Marker for Gastrointestinal Stromal Tumors); Clone DOG-1.1 (Concentrate)

Species: Mouse

Immunogen: A synthetic peptide from human DOG-1 protein (MSDFVDWVIPDIPKDISQQIHKEKVLMLVLFMREEQDKQQLLETCEK ERQKDEPPCNHHTKACPSLGSPPASHAYHGGVL), conjugated to a carrier protein.

Clone: DOG-1.1

Isotype: IgG1, kappa

Species Reactivity: Human. Others not known.

Positive Control: Gastrointestinal Stromal Tumor (GIST) or testicular germ cell tumor. Melanocytes in the basal layer of the epidermis and mast cells in the dermis of normal skin.

Specificity: DOG1.1 is a sensitive and specific immunohistochemical marker for GIST, comparable with c-Kit, with the additional benefit of detecting c-Kit-negative GISTs.

DOG1.1 is also a sensitive marker for unusual GIST subgroups lacking c-Kit or PDGFRA mutations.

Status: RUO

Catalog Number	Volume
RA0363-C.1	0.1 ml
RA0363-C.5	0.5 ml

Double Stranded DNA (dsDNA) (Nuclear Marker); Clone 121-3 (Concentrate)

Species: Mouse

Immunogen: Nuclei of Raji Burkitt's cells

Clone: 121-3

Isotype: IgG3, kappa

Species Reactivity: Human. Others not known.

Positive Control: Tonsil

Specificity: This antibody recognizes the double stranded DNA in human cells. It can be used to stain the nuclei in cell or tissue preparations and can be used as a nuclear marker in human cells.

Status: RUO

Catalog Number	Volume
RA0417-C.1	0.1 ml
RA0417-C.5	0.5 ml

Double Stranded DNA (dsDNA) (Nuclear Marker); Clone AE-2 (Concentrate)

Species: Mouse

Immunogen: Nuclei of Raji Burkitt's cells

Clone: AE-2

Isotype: IgG3, kappa

Species Reactivity: Human. Others not known.

Positive Control: Tonsil

Specificity: This antibody recognizes the double stranded DNA in human cells. It can be used to stain the nuclei in cell or tissue preparations and can be used as a nuclear marker in human cells.

Status: RUO

Catalog Number	Volume
RA0418-C.1	0.1 ml
RA0418-C.5	0.5 ml

EGFR (Epidermal Growth Factor Receptor); Clone 31G7 (Concentrate)

Species: Mouse.

Immunogen: Human EGFR purified from A431 cells.

Clone: 31G7.

Isotype: IgG2a, kappa.

Species Reactivity: Reacts with human. Others not known.

Positive Control: A431 cells. Placenta, breast, colon, or bladder cancer.

Specificity: This monoclonal antibody recognizes a protein of 170kDa, identified as EGFR. EGFR is type I receptor tyrosine kinase with sequence homology to erbB-1, -2, -3 -4 or HER-1, -2, -3 -4.

Status: RUO

Catalog Number	Volume
RA0579-C.1	0.1 ml
RA0579-C.5	0.5 ml
RA0579-C1	1 ml

EGFR (Epidermal Growth Factor Receptor); Clone 31G7 + GFR1195 (Concentrate)

Species: Mouse.
 Immunogen: Human EGFR purified from A431 cells (31G7); Recombinant human EGFR protein (GFR1195).
 Clone: 31G7 & GFR1195.
 Isotype: IgG2a, kappa.
 Species Reactivity: Reacts with human. Others not known.
 Positive Control: A431 cells. Placenta, breast, colon, or bladder cancer.
 Specificity: This antibody recognizes a protein of 170kDa, identified as EGFR.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0582-C.1	0.1 ml
RA0582-C.5	0.5 ml
RA0582-C1	1 ml

EGFR (Epidermal Growth Factor Receptor); Clone GFR/1667 (Concentrate)

Species: Mouse.
 Immunogen: Recombinant human full-length EGFR protein.
 Clone: GFR/1667.
 Isotype: IgG1.
 Species Reactivity: Reacts with human. Others not known.
 Positive Control: A431 cells. Placenta, breast, colon, or bladder cancer.
 Specificity: This monoclonal antibody recognizes a protein of 170kDa, identified as EGFR.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0583-C.1	0.1 ml
RA0583-C.5	0.5 ml
RA0583-C1	1 ml

EGFR (Epidermal Growth Factor Receptor); Clone GFR1195 (Concentrate)

Species: Mouse.
 Immunogen: Recombinant extracellular domain of human EGFR; aa25-645 (exact sequence is proprietary).
 Clone: GFR1195.
 Isotype: IgG2a, kappa.
 Species Reactivity: Reacts with human. Others not known.
 Positive Control: A431 cells. Placenta, breast, colon, or bladder cancer.
 Specificity: This monoclonal antibody recognizes a protein of 170kDa, identified as EGFR.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0581-C.1	0.1 ml
RA0581-C.5	0.5 ml
RA0581-C1	1 ml

EGFR (Epidermal Growth Factor Receptor); Clone GFR450 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human EGFR protein
 Clone: GFR450
 Isotype: IgG2a, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: A431 cells. Breast or bladder cancer.
 Specificity: This antibody recognizes a protein of 170kDa, identified as EGFR.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0107-C.1	0.1 ml
RA0107-C.5	0.5 ml

EGFR (Epidermal Growth Factor Receptor); Clone SPM622 (Concentrate)

Species: Mouse.
 Immunogen: Human EGFR purified from A431 cells.
 Clone: SPM622.
 Isotype: IgG2a, kappa.
 Species Reactivity: Reacts with human. Others not known.
 Positive Control: A431 cells. Placenta, breast, colon, or bladder cancer.
 Specificity: This monoclonal antibody recognizes a protein of 170kDa, identified as EGFR. EGFR is type I receptor tyrosine kinase with sequence homology to erbB-1, -2, -3 -4 or HER-1, -2, -3 -4.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0580-C.1	0.1 ml
RA0580-C.5	0.5 ml
RA0580-C1	1 ml

Ep-CAM / CD326 (Epithelial Marker); Clone EGP40/826 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human TACSTD1 protein
 Clone: EGP40/826
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: HT29 cells or breast tumor.
 Specificity: Recognizes a 40-43kDa transmembrane epithelial glycoprotein, identified as epithelial specific antigen (ESA), or epithelial cellular adhesion molecule (Ep-CAM).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0199-C.1	0.1 ml
RA0199-C.5	0.5 ml

Ep-CAM / CD326 (Epithelial Marker); Clone EGP40/837 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human TACSTD1 protein
 Clone: EGP40/837
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: HT29 cells or breast tumor.
 Specificity: This antibody has been used to distinguish adenocarcinoma from pleural mesothelioma and hepatocellular carcinoma. This antibody is also useful in distinguishing serous carcinomas of the ovary from mesothelioma.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0200-C.1	0.1 ml
RA0200-C.5	0.5 ml

Ep-CAM / CD326 (Epithelial Marker); Clone HEA125 (Concentrate)

Species: Mouse
 Immunogen: Human colon cancer HT29 cells
 Clone: HEA125
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: HT29 cells or breast tumor.
 Specificity: Recognizes a 40-43kDa transmembrane epithelial glycoprotein, identified as epithelial specific antigen (ESA), or epithelial cellular adhesion molecule (Ep-CAM). In immunoprecipitation experiments, the Ber-EP4 antibody blocks the reaction of the HEA125 antibody with MCF-7 cell lysate and vice versa, showing that the two antibodies react with the same antigen. The two antibodies also produce identical staining results in cells and tissues. Of the 37 cell lines tested, the antibody homogeneously labels all (10/10) carcinoma cell lines, whereas all non-epithelial cell lines (26/27) are negative except for the erythromyeloid cell line K562.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0198-C.1	0.1 ml
RA0198-C.5	0.5 ml

Ep-CAM / CD326 (Epithelial Marker); Clone MOC-31 (Concentrate)

Species: Mouse
 Immunogen: Neuraminidase treated GLS-1 human small cell lung carcinoma cells
 Clone: MOC-31
 Isotype: IgG1, kappa
 Species Reactivity: Human. Does not react with Rat. Others not known.
 Positive Control: HT29 cells or breast tumor.
 Specificity: The epitope of this antibody is located in the first EGF-like repeat domain (EGF1) between amino acids 27-59 of Ep-CAM. This antibody has been used to distinguish adenocarcinoma from pleural mesothelioma and hepatocellular carcinoma. This antibody is also useful in distinguishing serous carcinomas of the ovary from mesothelioma.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0196-C.1	0.1 ml
RA0196-C.5	0.5 ml

Ep-CAM / CD326 (Epithelial Marker); Clone VU-1D9 (Concentrate)

Species: Mouse
 Immunogen: Small cell lung carcinoma cells
 Clone: VU-1D9
 Isotype: IgG1, kappa
 Species Reactivity: Human. Does not react with Rat. Others not known.
 Positive Control: HT29 cells or breast tumor.
 Specificity: This antibody has been used to distinguish adenocarcinoma from pleural mesothelioma and hepatocellular carcinoma. This antibody is also useful in distinguishing serous carcinomas of the ovary from mesothelioma.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0195-C.1	0.1 ml
RA0195-C.5	0.5 ml

ER beta-1 (Estrogen Receptor beta-1); Clone ERb455 (Concentrate)

Species: Mouse
 Immunogen: C-terminus fragment of recombinant human estrogen receptor beta protein
 Clone: ERb455
 Isotype: IgG2a
 Species Reactivity: Human, Monkey, Mouse, Rat, Pig, Horse and Sheep. Others not known.
 Positive Control: Ovarian, breast or prostate carcinoma.
 Specificity: Nuclear positivity in estrogen receptor beta positive tumors.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0111-C.1	0.1 ml
RA0111-C.5	0.5 ml

Erythropoietin (EPO); Clone EPO/1367 (Concentrate)

Species: Mouse
 Immunogen: Recombinant fragment of human EPO protein (aa28-162) (exact sequence is proprietary).
 Clone: EPO/1367
 Isotype: IgG
 Species Reactivity: Reacts with human. Others not known.
 Positive Control: HepG2 Cells. Heart or Kidney.
 Specificity: Recognizes a protein of about 37kDa, which is identified as Erythropoietin (EPO).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0436-C.1	0.1 ml
RA0436-C.5	0.5 ml
RA0436-C1	1 ml

Erythropoietin (EPO); Clone EPO/1368 (Concentrate)

Species: Mouse
 Immunogen: Recombinant fragment of human EPO protein (aa28-162) (exact sequence is proprietary).
 Clone: EPO/1368
 Isotype: IgG
 Species Reactivity: Reacts with human. Others not known.
 Positive Control: HepG2 Cells. Heart or Kidney.
 Specificity: Recognizes a protein of about 37kDa, which is identified as Erythropoietin (EPO).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0445-C.1	0.1 ml
RA0445-C.5	0.5 ml
RA0445-C1	1 ml

Estrogen Receptor (Marker of Estrogen Dependence); Clone ER505 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human Estrogen Receptor alpha protein (aa 2-185)
 Clone: ER505
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: MCF-7 cells or breast cancers.
 Specificity: This antibody is specific to ER alpha and shows minimal cross-reaction with other members of the family.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0110-C.1	0.1 ml
RA0110-C.5	0.5 ml
RA0110-C	1 ml

Fascin-1 (Reed-Sternberg Cell Marker); Clone FSCN1/417 (Concentrate)

Species: Mouse
 Immunogen: Full length recombinant human FSCN1 protein
 Clone: FSCN1/417
 Isotype: IgG2a, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: HeLa, MCF-7, PC-3 or BEWO cells. Hodgkin's lymphoma, Ovarian, or Testicular Carcinoma.
 Specificity: This antibody recognizes a protein of 55kDa, which is identified as fascin-1.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0450-C.1	0.1 ml
RA0450-C.5	0.5 ml
RA0450-C1	1 ml

Fascin-1; Clone FSCN1/417 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human fascin protein
 Clone: FSCN1/417
 Isotype: IgG2a, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: HeLa cells. Thymus, spleen or Hodgkin's lymphoma.
 Specificity: Recognizes a protein of 55kDa, which is identified as fascin-1. This antibody to fascin-1 is a very sensitive marker for Reed-Sternberg cells and variants in nodular sclerosis, mixed cellularity, and lymphocyte depletion Hodgkin disease. It is uniformly negative in lymphoid cells, plasma cells, and myeloid cells.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0296-C.1	0.1 ml
RA0296-C.5	0.5 ml

FSH-beta (Follicle Stimulating Hormone-beta); Clone FSHb/1062 (Concentrate)

Species: Mouse
 Immunogen: Recombinant hFSH beta subunit
 Clone: FSHb/1062
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Anterior Pituitary
 Specificity: This antibody reacts with a protein of 22kDa, identified as the beta subunit of Follicle Stimulating Hormone (FSH). It does not cross react with the alpha subunit.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0435-C.1	0.1 ml
RA0435-C.5	0.5 ml
RA0435-C1	1 ml

GFAP (Astrocyte & Neural Stem Cell Marker); Clone ASTRO/789 (Concentrate)

Species: Mouse
 Immunogen: Recombinant GFAP protein
 Clone: ASTRO/789
 Isotype: IgG1
 Species Reactivity: Human, Mouse, Rat, Cow, Pig, Rabbit, and Chicken. Others not known.
 Positive Control: Brain or Astrocytoma.
 Specificity: This antibody recognizes a protein of ~50kDa which is identified as Glial Fibrillary Acidic Protein (GFAP). It shows no cross-reaction with other intermediate filament proteins.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0122-C.1	0.1 ml
RA0122-C.5	0.5 ml

**GFAP (Astrocyte & Neural Stem Cell Marker);
Clone GA-5 & ASTRO/789 (Concentrate)**

Species: Mouse
 Immunogen: GFAP isolated from pig spinal cord (GA-5);
 Recombinant GFAP protein (ASTRO/789)
 Clone: GA-5 & ASTRO/789
 Isotype: IgG1 (GA-5); IgG1 (ASTRO/789)
 Species Reactivity: Human, Mouse, Rat, Cow, Pig, Rabbit,
 Chicken. Others not known.
 Positive Control: Brain or Astrocytoma.
 Specificity: This antibody recognizes a protein of ~50kDa which
 is identified as Glial Fibrillary Acidic Protein (GFAP). It shows no
 cross-reaction with other intermediate filament proteins.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0123-C.1	0.1 ml
RA0123-C.5	0.5 ml

**GFAP (Astrocyte & Neural Stem Cell Marker);
Clone GA-5 (Concentrate)**

Species: Mouse
 Immunogen: GFAP isolated from pig spinal cord
 Clone: GA-5
 Isotype: IgG1
 Species Reactivity: Human, Mouse, Rat, Cow, Pig, Rabbit,
 Chicken. Others not known.
 Positive Control: Brain or Astrocytoma.
 Specificity: This antibody recognizes a protein of ~50kDa which
 is identified as Glial Fibrillary Acidic Protein (GFAP). It shows no
 cross-reaction with other intermediate filament proteins.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0121-C.1	0.1 ml
RA0121-C.5	0.5 ml

**Glycophorin A / CD235a (Erythrocyte Marker);
Clone GYPA/280 (Concentrate)**

Species: Mouse
 Immunogen: Recombinant human glycophorin A protein
 Clone: GYPA/280
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not tested.
 Positive Control: Erythrocytes
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0438-C.1	0.1 ml
RA0438-C.5	0.5 ml
RA0438-C1	1 ml

**Glypican-3 (GPC3) (Marker of Hepatocellular
Carcinoma); Clone 1G12 & GPC3/863 (Concentrate)**

Species: Mouse
 Immunogen: Recombinant fragment containing amino acids
 511-580 of human glypican-3 (1G12); Recombinant human GPC3
 protein (GPC3/863).
 Clone: 1G12 & GPC3/863
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: 293T cells or Hepatocellular carcinoma.
 Specificity: Anti-GPC3 has been identified as a useful tumor
 marker for the diagnosis of hepatocellular carcinoma (HCC),
 hepatoblastoma, melanoma, testicular germ cell tumors, and
 Wilm's tumor.

<u>Catalog Number</u>	<u>Volume</u>
RA0126-C.1	0.1 ml
RA0126-C.5	0.5 ml

**Glypican-3 (GPC3) (Marker of Hepatocellular
Carcinoma); Clone 1G12 (Concentrate)**

Species: Mouse
 Immunogen: A recombinant fragment containing amino acids
 511-580 of human glypican-3
 Clone: 1G12
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: 293T cells or Hepatocellular carcinoma.
 Specificity: Anti-GPC3 has been identified as a useful tumor
 marker for the diagnosis of hepatocellular carcinoma (HCC),
 hepatoblastoma, melanoma, testicular germ cell tumors, and
 Wilm's tumor.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0124-C.1	0.1 ml
RA0124-C.5	0.5 ml

**Glypican-3 (GPC3) (Marker of Hepatocellular
Carcinoma); Clone GPC3/863 (Concentrate)**

Species: Mouse
 Immunogen: Recombinant human GPC3 protein
 Clone: GPC3/863
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: 293T cells or Hepatocellular carcinoma.
 Specificity: Anti-GPC3 has been identified as a useful tumor
 marker for the diagnosis of hepatocellular carcinoma (HCC),
 hepatoblastoma, melanoma, testicular germ cell tumors, and
 Wilm's tumor.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0125-C.1	0.1 ml
RA0125-C.5	0.5 ml

GM-CSF (Granulocyte/Macrophage - Colony Stimulating Factor); Clone BVD2-21C11 (Concentrate)

Species: Rat.
 Immunogen: Recombinant human GM-CSF protein.
 Clone: BVD2-21C11
 Isotype: IgG2a, kappa.
 Species Reactivity: Reacts with human, cynomolgus, and rhesus monkey. Others not known.
 Positive Control: Lymph node and tonsil.
 Specificity: Recognizes a protein of 22kDA identified as Granulocyte/macrophage - Colony-stimulating factor (GM-CSF).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0538-C.1	0.1 ml
RA0538-C.5	0.5 ml
RA0538-C1	1 ml

GnRH-Receptor / LH-RH Receptor; Clone A9E4 (Concentrate)

Species: Mouse
 Immunogen: A synthetic peptide of aa 1-29 (MANSASPEQNQHCSAINNSIPLMQGNLPY) from the N-terminus of human GnRH receptor.
 Clone: A9E4
 Isotype: IgG1, kappa
 Species Reactivity: Human. Predicted to react with Pig and Rabbit. Others not known.
 Positive Control: T47D cells. Pituitary gland, ovarian or breast cancers.
 Specificity: Recognizes an epitope on the extracellular domain of gonadotropin releasing hormone (GnRH) receptor or luteinizing hormone receptor (LHCGR).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0127-C.1	0.1 ml
RA0127-C.5	0.5 ml

GnRH-Receptor / LH-RH Receptor; Clone F1G4 (Concentrate)

Species: Mouse
 Immunogen: A synthetic peptide consisting of amino acids 1-29 (MANSASPEQNQHCSAINNSI PLMQGNLPY) from the N-terminus of the human GnRH receptor.
 Clone: F1G4; same as GNRH03
 Isotype: IgG1, kappa
 Species Reactivity: Human and Rat. Predicted to react with Pig and Rabbit. Others not known.
 Positive Control: T47D cells. Pituitary gland, ovarian or breast cancers.
 Specificity: This antibody recognizes an epitope on the extracellular domain of the gonadotropin releasing hormone (GnRH) receptor or luteinizing hormone receptor (LHCGR).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0437-C.1	0.1 ml
RA0437-C.5	0.5 ml
RA0437-C1	1 ml

GnRH-Receptor / LH-RH Receptor; Clone HH7/768 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human GNRHR protein
 Clone: HH7/768
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: T47D cells. Pituitary gland, ovarian or breast cancers.
 Specificity: Recognizes an epitope on the extracellular domain of gonadotropin releasing hormone (GnRH) receptor or luteinizing hormone receptor (LHCGR).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0128-C.1	0.1 ml
RA0128-C.5	0.5 ml

gp100 / Melanosome / PMEL17 / SILV (Melanoma Marker); Clone HMB45 & PMEL/783 (Concentrate)

Species: Mouse
 Immunogen: Extract of pigmented melanoma metastases from lymph nodes (HMB45); Recombinant human SILV protein (PMEL/783)
 Clone: HMB45 & PMEL/783
 Isotype: IgG1, kappa (HMB45); IgG1, kappa (PMEL/783)
 Species Reactivity: Human. Others not tested.
 Positive Control: SK-MEL-28 cells or Melanoma.
 Specificity: By immunohistochemistry, this antibody specifically recognizes a protein in melanocytes and melanomas. This antibody reacts with junctional and blue nevus cells and variably with fetal and neonatal melanocytes. Intradermal nevi, normal adult melanocytes, and non-melanocytic cells are negative. It does not stain tumor cells of epithelial, lymphoid, glial, or mesenchymal origin. This antibody also stains Angiomyolipoma (PEComa).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0294-C.1	0.1 ml
RA0294-C.5	0.5 ml

gp100 / Melanosome / PMEL17 / SILV (Melanoma Marker); Clone HMB45 (Concentrate)

Species: Mouse
 Immunogen: Extract of pigmented melanoma metastases from lymph nodes
 Clone: HMB45
 Isotype: IgG1, kappa
 Species Reactivity: Human. Does not react with Dog and Rat. Others not tested.
 Positive Control: SK-MEL-28 cells or Melanoma.
 Specificity: By immunohistochemistry, this antibody specifically recognizes a protein in melanocytes and melanomas. This antibody reacts with junctional and blue nevus cells and variably with fetal and neonatal melanocytes. Intradermal nevi, normal adult melanocytes, and non-melanocytic cells are negative. It does not stain tumor cells of epithelial, lymphoid, glial, or mesenchymal origin. This antibody also stains Angiomyolipoma (PEComa).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0292-C.1	0.1 ml
RA0292-C.5	0.5 ml

gp100 / Melanosome / PMEL17 / SILV (Melanoma Marker); Clone PMEL/783 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human SILV protein
 Clone: PMEL/783
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not tested.
 Positive Control: SK-MEL-28 cells or Melanoma.
 Specificity: gp100, also designated ME20-M, ME20-S and PMEL 17, is classified as a melanocyte differentiation antigen and is expressed at low levels in normal cell lines and tissues, but is upregulated in melanocytes.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0293-C.1	0.1 ml
RA0293-C.5	0.5 ml

Granulocyte-Colony Stimulating Factor (G-CSF); Clone CSF3/900 (Concentrate)

Species: Mouse.
 Immunogen: Human recombinant full-length CSF3 protein.
 Clone: CSF3/900
 Isotype: IgG1
 Species Reactivity: Reacts with human and macaque monkey. Others not known.
 Positive Control: HL60 cells, tonsil, or lymph node.
 Specificity: This monoclonal antibody recognizes granulocyte-colony stimulating factor (G-CSF) in the cytoplasm of mature granulocytes. It shows no reactivity with any other cell types. It reacts with early precursor and mature forms of myeloid cells.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0540-C.1	0.1 ml
RA0540-C.5	0.5 ml
RA0540-C1	1 ml

Granulocyte-Colony Stimulating Factor (G-CSF); Clone SPM468 (Concentrate)

Species: Mouse.
 Immunogen: Nuclei from pokeweed mitogen stimulated human peripheral blood lymphocytes.
 Clone: SPM468
 Isotype: IgG1
 Species Reactivity: Reacts with human and macaque monkey. Others not known.
 Positive Control: HL60 cells, tonsil, or lymph node.
 Specificity: This monoclonal antibody recognizes granulocyte-colony stimulating factor (G-CSF) in the cytoplasm of mature granulocytes. It shows no reactivity with any other cell types. It reacts with early precursor and mature forms of myeloid cells.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0541-C.1	0.1 ml
RA0541-C.5	0.5 ml
RA0541-C1	1 ml

hCG Holo (Pregnancy & Choriocarcinoma Marker); Clone HCGab/52 (Concentrate)

Species: Mouse
 Immunogen: Purified hCG protein
 Clone: HCGab/52
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: JAR or TT Cells. Placenta.
 Specificity: This antibody is very specific because it reacts ONLY with intact hCG and not with either the free alpha- or free beta-chain of hCG.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0399-C.1	0.1 ml
RA0399-C.5	0.5 ml

HCG-alpha (Pregnancy & Choriocarcinoma Marker); Clone SPM552 (Concentrate)

Species: Mouse
 Immunogen: Recombinant hCG alpha protein.
 Clone: SPM552
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Placenta.
 Specificity: This monoclonal antibody reacts with a protein of ~13kDa, identified as HCG-alpha, a sub-unit of HCG.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0504-C.1	0.1 ml
RA0504-C.5	0.5 ml
RA0504-C1	1 ml

hCG-alpha; Clone HCGa/53 (Concentrate)

Species: Mouse
 Immunogen: Recombinant hCG alpha protein
 Clone: HCGa/53
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: JAR or TT Cells. Placenta.
 Specificity: This monoclonal antibody reacts with a protein of ~13kDa, identified as the alpha subunit of hCG.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0086-C.1	0.1 ml
RA0086-C.5	0.5 ml

HCG-beta (Pregnancy & Choriocarcinoma Marker); Clone HCGb/211 (Concentrate)

Species: Mouse
 Immunogen: Purified human HCG-beta.
 Clone: HCGb/211
 Isotype: IgG1
 Species Reactivity: Reacts with human. Others not known.
 Positive Control: Placenta.
 Specificity: This monoclonal antibody reacts with a protein of 22kDa, identified as HCG-beta, a sub-unit of HCG. It does not cross react with the alpha sub-unit.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0508-C.1	0.1 ml
RA0508-C.5	0.5 ml
RA0508-C1	1 ml

**hCG-beta (Pregnancy & Choriocarcinoma Marker);
Clone HCGb/459 (Concentrate)**

Species: Mouse
 Immunogen: Recombinant hCG beta protein
 Clone: HCGb/459
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: JAR or TT Cells. Placenta.
 Specificity: This monoclonal antibody reacts with a protein of 22kDa, identified as the beta subunit of hCG. It does not cross react with the alpha subunit. This hCG detects cells and tumors of trophoblastic origin such as choriocarcinoma. Large cell carcinoma and adenocarcinoma of the lung demonstrate anti-hCG positivity in 90% and 60% of cases, respectively. 20% of lung squamous cell carcinomas are positive. hCG expression by non-trophoblastic tumors may indicate aggressive behavior.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0088-C.1	0.1 ml
RA0088-C.5	0.5 ml

**hCG-beta (Pregnancy & Choriocarcinoma Marker);
Clone HCGb/54 & HCGb/459 (Concentrate)**

Species: Mouse
 Immunogen: Recombinant hCG beta protein (HCGb/54 and HCGb/459)
 Clone: HCGb/54 & HCGb/459
 Isotype: IgG1, kappa (HCGb/54 and HCGb/459)
 Species Reactivity: Human. Others not known.
 Positive Control: JAR or TT Cells. Placenta.
 Specificity: This monoclonal antibody reacts with a protein of 22kDa, identified as the beta subunit of hCG. It does not cross react with the alpha subunit. hCG antibody detects cells and tumors of trophoblastic origin such as choriocarcinoma. Large cell carcinoma and adenocarcinoma of the lung demonstrate anti-hCG positivity in 90% and 60% of cases, respectively. 20% of lung squamous cell carcinomas are positive. hCG expression by non-trophoblastic tumors may indicate aggressive behavior.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0089-C.1	0.1 ml
RA0089-C.5	0.5 ml

**hCG-beta (Pregnancy & Choriocarcinoma Marker);
Clone HCGb/54 (Concentrate)**

Species: Mouse
 Immunogen: Recombinant hCG beta protein
 Clone: HCGb/54
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: JAR or TT Cells. Placenta.
 Specificity: This monoclonal antibody reacts with a protein of 22kDa, identified as the beta subunit of hCG. It does not cross react with the alpha subunit. This hCG antibody detects cells and tumors of trophoblastic origin such as choriocarcinoma. Large cell carcinoma and adenocarcinoma of the lung demonstrate anti-hCG positivity in 90% and 60% of cases, respectively. 20% of lung squamous cell carcinomas are positive. hCG expression by non-trophoblastic tumors may indicate aggressive behavior.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0087-C.1	0.1 ml
RA0087-C.5	0.5 ml

**HCG-beta (Pregnancy & Choriocarcinoma Marker);
Clone SPM105 (Concentrate)**

Species: Mouse
 Immunogen: Recombinant hCG beta protein.
 Clone: SPM105
 Isotype: IgG1, kappa
 Species Reactivity: Reacts with human. Others not known.
 Positive Control: Placenta.
 Specificity: This monoclonal antibody reacts with a protein of 22kDa, identified as HCG-beta, a sub-unit of HCG. It does not cross react with the HCG-alpha sub-unit.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0506-C.1	0.1 ml
RA0506-C.5	0.5 ml
RA0506-C1	1 ml

**HCG-beta (Pregnancy & Choriocarcinoma Marker);
Clone SPM529 (Concentrate)**

Species: Mouse
 Immunogen: Recombinant hCG beta protein.
 Clone: SPM529
 Isotype: IgG1
 Species Reactivity: Reacts with human. Others not known.
 Positive Control: Placenta.
 Specificity: This monoclonal antibody reacts with a protein of 22kDa, identified as HCG-beta, a sub-unit of HCG. It does not cross react with the alpha sub-unit.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0507-C.1	0.1 ml
RA0507-C.5	0.5 ml
RA0507-C1	1 ml

**Hepatocyte Specific Antigen (Hep Par 1)
(Hepatocellular Marker); Clone OCH1E5 (Hep Par 1)
(Concentrate)**

Species: Mouse
 Immunogen: Extract of a formalin-fixed, rejected allograft of a human liver
 Clone: OCH1E5; same as Hep Par 1
 Isotype: IgG1
 Species Reactivity: Human and Dog. Others not known.
 Positive Control: Liver or Hepatocellular Carcinoma (HCC).
 Specificity: Hepatocyte Specific Antigen, also called Hepatocyte Paraffin 1 or Hep Par 1, localizes to the mitochondria of hepatocytes. It is a sensitive marker for distinguishing hepatocellular carcinomas (HCC) from other metastatic carcinomas as well as cholangio-carcinomas.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0409-C.1	0.1 ml
RA0409-C.5	0.5 ml

Hepatocyte Specific Antigen (Hepatocellular Marker); Clone HSA98 (Concentrate)

Species: Mouse
 Immunogen: HEP-3B human hepatocellular carcinoma cells
 Clone: HSA98
 Isotype: IgG2b, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Liver or Hepatocellular Carcinoma (HCC).
 Specificity: Clone HSA98 binds to human hepatocytes and the majority of human hepatocellular carcinomas (HCC's). In frozen sections, it stains hepatic cells and may be used as a marker of the liver. Cell preparations of hepatocellular carcinoma biopsies or cell lines are found to bind HSA98 on the cell surface. This antibody stains liver hepatocytes in frozen human liver sections and is positive on the cell surface of human liver carcinomas.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0410-C.1	0.1 ml
RA0410-C.5	0.5 ml

HER-2 / c-erbB-2 / neu / CD340; Clone HRB2/451 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human HER-2 protein
 Clone: HRB2/451
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: SKBR-3 cells or breast cancers.
 Specificity: This antibody is specific to HER-2/c-erbB-2 and shows minimal cross-reaction with other members of the family.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0108-C.1	0.1 ml
RA0108-C.5	0.5 ml

HPV-16 (Human Papilloma Virus 16); Clone CAMVIR-1 (Concentrate)

Species: Mouse
 Immunogen: Human papilloma virus type 16, major capsid protein L1
 Clone: CAMVIR-1
 Isotype: IgG2a, kappa
 Species Reactivity: Type 16 of human Papilloma Virus (HPV-16).
 Positive Control: HPV-16 infected cells or cervical tissue.
 Specificity: Reacts with a protein of 57kDa, identified as the L1 protein of human papilloma virus type 16 (HPV-16). The antibody reacts very strongly with formalin-fixed, paraffin-embedded tissues containing HPV-16 or -33; very weak reactions were occasionally observed with biopsy specimens or smears containing HPV-6 or HPV-11. It cross-reacts with HPV37.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0380-C.1	0.1 ml
RA0380-C.5	0.5 ml
RA0380-C1	1 ml

HSP27 (Heat Shock Protein 27); Clone 24K/774 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human HSPB1 protein.
 Clone: 24K/774
 Isotype: IgG1, kappa
 Species Reactivity: Human, Chimpanzee, Monkey, Sheep, Rat, Mouse, and Chicken. Others not known.
 Positive Control: ~50% of breast carcinomas are positive for HSP27, especially those that are also positive for estrogen and/or progesterone receptor.
 Specificity: This antibody recognizes a 24-27kDa estrogen-regulated protein, identified as heat shock protein 27 (HSP27).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0132-C.1	0.1 ml
RA0132-C.5	0.5 ml

HSP27 (Heat Shock Protein 27); Clone G3.1 (Concentrate)

Species: Mouse
 Immunogen: Partially purified HSP27 (earlier called 24K) protein from breast cancer MCF-7 cells.
 Clone: G3.1
 Isotype: IgG1, kappa
 Species Reactivity: Human, Chimpanzee, Monkey, Sheep, Rat, Mouse, and Chicken. Others not known.
 Positive Control: ~50% of Breast Carcinomas are positive for HSP27, especially those that are also positive for estrogen and/or progesterone receptor.
 Specificity: This antibody recognizes a 24-27kDa estrogen-regulated protein, identified as heat shock protein 27 (HSP27).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0131-C.1	0.1 ml
RA0131-C.5	0.5 ml

HSP60 (Heat Shock Protein 60); Clone HLD4/780 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human HSPD1 protein
 Clone: HLD4/780
 Isotype: IgG1, kappa
 Species Reactivity: Human, Mouse, Rat, Hamster, Sheep, Rabbit, Cow, Dog, Pig, Monkey, Chicken, Xenopus laevis, and Drosophila. Does not react with Bacteria, Helminths, and Spinach. Others not known.
 Positive Control: HeLa or HepG2 cells. Breast carcinoma. Synovial biopsies from patients with juvenile chronic arthritis. Synovial lining layer is strongly positive for HSP60.
 Specificity: Recognizes a 60kDa protein, identified as the heat shock protein 60 (HSP60).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0134-C.1	0.1 ml
RA0134-C.5	0.5 ml

HSP60 (Heat Shock Protein 60); Clone LK1 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human HSP60 protein
 Clone: LK1
 Isotype: IgG1, kappa
 Species Reactivity: Human, Mouse, Rat, Hamster, Sheep, Rabbit, Cow, Dog, Pig, Monkey, Chicken, Xenopus laevis, and Drosophila. Does not react with Bacteria, Helminths, and Spinach. Others not known.
 Positive Control: HeLa or HepG2 cells. Breast carcinoma. Synovial biopsies from patients with juvenile chronic arthritis. Synovial lining layer is strongly positive for HSP60.
 Specificity: This antibody recognizes a 60kDa protein, identified as the heat shock protein 60 (HSP60). Its epitope is localized between aa 383-447 of human HSP60. Clone LK1, unlike LK2, recognizes only the mammalian (not bacterial) HSP60 and is useful in distinguishing HSP60 from mammals and bacteria.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0133-C.1	0.1 ml
RA0133-C.5	0.5 ml

IDH1 R132H; Clone H09 (Concentrate)

Species: Mouse
 Immunogen: Synthetic peptide, amino acid sequence CKPIIIIGHAYGD
 Clone: H09
 Isotype: IgG2a
 Species Reactivity: Human
 Positive Control: Oligodendroglioma, diffuse astrocytoma
 Specificity: Human IDH1 R132H point mutation
 Status: RUO
 Manufactured By: Dianova GmbH

<u>Catalog Number</u>	<u>Volume</u>
DIA-H09-M	0.1 ml
DIA-H09	0.5 ml

IgA (Immunoglobulin Alpha Heavy Chain) (B-Cell Marker); Clone HISA3 & GA01 (Concentrate)

Species: Mouse
 Immunogen: Purified human IgA
 Clone: HISA3 & GA01
 Isotype: IgG1, kappa (HISA3 & GA01)
 Species Reactivity: Human. Others not known.
 Positive Control: Daudi, 293T, Raji or hPBL cells. Tonsil or spleen.
 Specificity: This monoclonal antibody is specific to the heavy chain of IgA and shows minimal cross-reaction with heavy chains of other immunoglobulins. It is reactive with all subclasses of Alpha heavy chain.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0138-C.1	0.1 ml
RA0138-C.5	0.5 ml

IgA (Immunoglobulin Alpha Heavy Chain) (B-Cell Marker); Clone HISA3 (Concentrate)

Species: Mouse
 Immunogen: Purified human IgA
 Clone: HISA3
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Daudi, 293T, Raji or hPBL cells. Tonsil or spleen.
 Specificity: This monoclonal antibody is specific to the heavy chain of IgA and shows minimal cross-reaction with heavy chains of other immunoglobulins. It is reactive with all subclasses of Alpha heavy chain.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0136-C.1	0.1 ml
RA0136-C.5	0.5 ml

IgA (Immunoglobulin Alpha Heavy Chain) (B-Cell Marker); Clone IA761 (Concentrate)

Species: Mouse
 Immunogen: Purified human alpha heavy chain
 Clone: IA761
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Daudi, 293T, Raji or hPBL cells. Tonsil or spleen.
 Specificity: This monoclonal antibody is specific to the heavy chain of IgA and shows minimal cross-reaction with heavy chains of other immunoglobulins. It is reactive with all subclasses of Alpha heavy chain.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0137-C.1	0.1 ml
RA0137-C.5	0.5 ml

IgG (Immunoglobulin Gamma Heavy Chain) (B-Cell Marker); Clone B33/20 (Concentrate)

Species: Mouse
 Immunogen: Purified human Ig Gamma Chain
 Clone: B33/20
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: 293T, Raji or hPBL cells. Tonsil or Spleen.
 Specificity: Recognizes a protein of 75kDa, identified as gamma heavy chain of human immunoglobulins. Its epitope maps in the CH2 domain of the Fc region of IgG. It reacts with all sub-classes of gamma chain of human immunoglobulins. It does not cross-react with alpha (IgA), mu (IgM), epsilon (IgE), or delta (IgD), heavy chains, T-cells, monocytes, granulocytes, or erythrocytes.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0142-C.1	0.1 ml
RA0142-C.5	0.5 ml

IgG (Immunoglobulin Gamma Heavy Chain) (B-Cell Marker); Clone IG217 & IG266 (Concentrate)

Species: Mouse
 Immunogen: Purified human Ig Gamma Chain
 Clone: IG217 & IG266
 Isotype: IgG1, kappa (IG217); IgG2a, kappa (IG266)
 Species Reactivity: Human. Others not known.
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.
 Specificity: This antibody is specific to heavy chain of IgG and shows minimal cross-reaction with heavy chains of other immunoglobulins. It is reactive with all subclasses of Gamma heavy chain (IgG1, IgG2a, IgG2b, IgG3).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0141-C.1	0.1 ml
RA0141-C.5	0.5 ml

IgG (Immunoglobulin Gamma Heavy Chain) (B-Cell Marker); Clone IG217 (Concentrate)

Species: Mouse
 Immunogen: Purified human Ig Gamma Chain
 Clone: IG217
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.
 Specificity: Recognizes a protein of 75kDa, identified as the gamma heavy chain of human immunoglobulins. It reacts with all sub-classes of gamma chains of human immunoglobulins. It does not cross-react with alpha (IgA), mu (IgM), epsilon (IgE), or delta (IgD), heavy chains, T-cells, monocytes, granulocytes, or erythrocytes.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0139-C.1	0.1 ml
RA0139-C.5	0.5 ml

IgG (Immunoglobulin Gamma Heavy Chain) (B-Cell Marker); Clone IG266 (Concentrate)

Species: Mouse
 Immunogen: Purified human Ig Gamma Chain
 Clone: IG266
 Isotype: IgG2a, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.
 Specificity: Recognizes a protein of 75kDa, identified as the gamma heavy chain of human immunoglobulins. It reacts with all sub-classes of gamma chains of human immunoglobulins. It does not cross-react with alpha (IgA), mu (IgM), epsilon (IgE), or delta (IgD), heavy chains, T-cells, monocytes, granulocytes, or erythrocytes.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0140-C.1	0.1 ml
RA0140-C.5	0.5 ml

IgM (Immunoglobulin Mu Heavy Chain) (B-Cell Marker); Clone DA4-4 (SA-DA4 or HB57) (Concentrate)

Species: Mouse
 Immunogen: Heavy chain of human IgM
 Clone: DA4-4 (SA-DA4 or HB57)
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.
 Specificity: Recognizes a protein of 75kDa, identified as mu heavy chain of human immunoglobulins. It does not cross-react with alpha (IgA), gamma (IgG), epsilon (IgE), or delta (IgD), heavy chains, T-cells, monocytes, granulocytes, or erythrocytes.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0144-C.1	0.1 ml
RA0144-C.5	0.5 ml

IgM (Immunoglobulin Mu Heavy Chain) (B-Cell Marker); Clone ICO-30 (Concentrate)

Species: Mouse
 Immunogen: Heavy chain of human IgM
 Clone: ICO-30
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: 293T, Raji or hPBL cells. Tonsil or Spleen.
 Specificity: Recognizes a protein of 75kDa, identified as mu heavy chain of human immunoglobulins. It does not cross-react with alpha (IgA), gamma (IgG), epsilon (IgE), or delta (IgD), heavy chains, T-cells, monocytes, granulocytes, or erythrocytes.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0143-C.1	0.1 ml
RA0143-C.5	0.5 ml

IgM (Immunoglobulin Mu Heavy Chain) (B-Cell Marker); Clone IM260 & ICO-30 (Concentrate)

Species: Mouse
 Immunogen: Recombinant heavy chain of human IgM (IM260); Heavy chain of human IgM (ICO-30)
 Clone: IM260 & ICO-30
 Isotype: IgG1, kappa (IM260 & ICO-30)
 Species Reactivity: Human. Others not known.
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.
 Specificity: Recognizes a protein of 75kDa, identified as the mu heavy chain of human immunoglobulins. It does not cross-react with alpha (IgA), gamma (IgG), epsilon (IgE), or delta (IgD) heavy chains, T-cells, monocytes, granulocytes, or erythrocytes.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0147-C.1	0.1 ml
RA0147-C.5	0.5 ml

IgM (Immunoglobulin Mu Heavy Chain) (B-Cell Marker); Clone IM260 (Concentrate)

Species: Mouse
 Immunogen: Recombinant heavy chain of human IgM
 Clone: IM260
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.
 Specificity: Recognizes a protein of 75kDa, identified as mu heavy chain of human immunoglobulins. It does not cross-react with alpha (IgA), gamma (IgG), epsilon (IgE), or delta (IgD), heavy chains, T-cells, monocytes, granulocytes, or erythrocytes.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0145-C.1	0.1 ml
RA0145-C.5	0.5 ml

IgM (Immunoglobulin Mu Heavy Chain) (B-Cell Marker); Clone IM373 (Concentrate)

Species: Mouse
 Immunogen: Recombinant heavy chain of human IgM
 Clone: IM373
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.
 Specificity: Recognizes a protein of 75kDa, identified as mu heavy chain of human immunoglobulins. It does not cross-react with alpha (IgA), gamma (IgG), epsilon (IgE), or delta (IgD), heavy chains, T-cells, monocytes, granulocytes, or erythrocytes.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0146-C.1	0.1 ml
RA0146-C.5	0.5 ml

Insulin / IRDN (Beta Cell & Insulinoma Marker); Clone 2D11-H5 (INS05) (Concentrate)

Species: Mouse
 Immunogen: Purified pig insulin, conjugated to KLH
 Clone: 2D11-H5 (INS05)
 Isotype: IgG1, kappa
 Species Reactivity: Human, Cow and Pig. Does not react with Mouse and Rat. Others not known.
 Positive Control: MIA PaCa-2 cells or Pancreas.
 Specificity: Recognizes a polypeptide which is identified as insulin, a 51-amino acid polypeptide composed of A and B chains connected through disulfide bonds.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0161-C.1	0.1 ml
RA0161-C.5	0.5 ml

Insulin / IRDN (Beta Cell & Insulinoma Marker); Clone E2-E3 & 2D11-H5 (INS04 & INS05) (Concentrate)

Species: Mouse
 Immunogen: Purified pig insulin, conjugated to KLH
 Clone: E2-E3 & 2D11-H5 (INS04 & INS05)
 Isotype: IgG1, kappa (E2-E3); IgG1, kappa (2D11-H5)
 Species Reactivity: Human, Cow Pig, Rabbit, and Rat. Others not known.
 Positive Control: MIA PaCa-2 cells or Pancreas.
 Specificity: Recognizes a polypeptide which is identified as insulin, a 51-amino acid polypeptide composed of A and B chains connected through disulfide bonds.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0163-C.1	0.1 ml
RA0163-C.5	0.5 ml

Insulin / IRDN (Beta Cell & Insulinoma Marker); Clone E2-E3 (INS04) (Concentrate)

Species: Mouse
 Immunogen: Purified pig insulin, conjugated to KLH
 Clone: E2-E3 (INS04)
 Isotype: IgG1, kappa
 Species Reactivity: Human, Cow Pig, Rabbit, and Rat. Others not known.
 Positive Control: MIA PaCa-2 cells or Pancreas.
 Specificity: Recognizes a polypeptide which is identified as insulin, a 51-amino acid polypeptide composed of A and B chains connected through disulfide bonds.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0162-C.1	0.1 ml
RA0162-C.5	0.5 ml

Insulin / IRDN (Beta Cell & Insulinoma Marker); Clone IRDN/794 (Concentrate)

Species: Mouse
 Immunogen: Recombinant INS protein
 Clone: IRDN/794
 Isotype: IgG1, kappa
 Species Reactivity: Human, Cow and Pig. Does not react with Mouse and Rat. Others not known.
 Positive Control: MIA PaCa-2 cells or Pancreas.
 Specificity: Recognizes a polypeptide which is identified as insulin, a 51-amino acid polypeptide composed of A and B chains connected through disulfide bonds.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0164-C.1	0.1 ml
RA0164-C.5	0.5 ml

Insulin / IRDN (Beta Cell & Insulinoma Marker); Clone IRDN/805 (Concentrate)

Species: Mouse
 Immunogen: Recombinant INS protein
 Clone: IRDN/805
 Isotype: IgG1, kappa
 Species Reactivity: Human, Cow, Pig, Rabbit and Rat. Others not known. Others not known.
 Positive Control: MIA PaCa-2 cells or Pancreas.
 Specificity: Recognizes a polypeptide which is identified as insulin, a 51-amino acid polypeptide composed of A and B chains connected through disulfide bonds.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0165-C.1	0.1 ml
RA0165-C.5	0.5 ml

Involucrin (Squamous Cell Terminal Differentiation Marker); Clone IVRN/827 (Concentrate)

Species: Mouse
 Immunogen: Purified involucrin from human keratinocytes
 Clone: IVRN/827
 Isotype: IgG1, kappa
 dysplasias of the larynx and cervix.
 Species Reactivity: Human. Others not known.
 Positive Control: MCF-7 cells. Localized to upper spinous and granular layers in normal skin.
 Specificity: This antibody recognizes a protein of 66kDa-170kDa, identified as involucrin. In Western blotting of cultured human keratinocytes, this antibody reacts with a 120kDa protein. It stains the involucrin in a variety of sizes: 170kDa in MCF-7 cells, a doublet of ~115kDa and 150kDa in gorilla and owl monkey, 66kDa in dog, and a doublet of 105kDa in pig. Its epitope maps between codon 421-568 of human involucrin.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0167-C.1	0.1 ml
RA0167-C.5	0.5 ml

Involucrin (Squamous Cell Terminal Differentiation Marker); Clone SY5 (Concentrate)

Species: Mouse
 Immunogen: Purified involucrin from human keratinocytes
 Clone: SY5
 Isotype: IgG1, kappa
 Species Reactivity: Human, Gorilla, Owl monkey, Pig, and Dog. Does not react with Mouse. Others not known.
 Positive Control: MCF-7 cells. Localized to upper spinous and granular layers in normal skin.
 Specificity: This antibody recognizes a protein of 66kDa-170kDa, identified as involucrin. In Western blotting of cultured human keratinocytes, this antibody reacts with a 120kDa protein. It stains the involucrin in a variety of sizes: 170kDa in MCF-7 cells, a doublet of ~115kDa and 150kDa in gorilla and owl monkey, 66kDa in dog, and a doublet of 105kDa in pig. Its epitope maps between codon 421-568 of human involucrin.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0166-C.1	0.1 ml
RA0166-C.5	0.5 ml

Kappa Light Chain (B-Cell marker); Clone HP6053 & L1C1 (Concentrate)

Species: Mouse
 Immunogen: Purified human Ig kappa chain (HP6053); Human B-Lymphoma Cells (L1C1)
 Clone: HP6053 & L1C1
 Isotype: IgG1, kappa (HP6053); IgG1, kappa (L1C1)
 Species Reactivity: Human. Others not known.
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.
 Specificity: This monoclonal antibody is specific to the kappa light chain of immunoglobulins and shows no cross-reaction with the lambda light chain or any of the five heavy chains.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0152-C.1	0.1 ml
RA0152-C.5	0.5 ml

Kappa Light Chain (B-Cell marker); Clone HP6053 (Concentrate)

Species: Mouse
 Immunogen: Purified human Ig kappa chain
 Clone: HP6053
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.
 Specificity: This monoclonal antibody is specific to the kappa light chain of immunoglobulins and shows no cross-reaction with the lambda light chain or any of the five heavy chains.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0151-C.1	0.1 ml
RA0151-C.5	0.5 ml

Kappa Light Chain (B-Cell marker); Clone Kap-56 (Concentrate)

Species: Mouse
 Immunogen: Human lymphocytes stimulated
 Clone: Kap-56
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.
 Specificity: This monoclonal antibody is specific to the kappa light chain of immunoglobulins and shows no cross-reaction with the lambda light chain or any of the five heavy chains.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0154-C.1	0.1 ml
RA0154-C.5	0.5 ml

Kappa Light Chain (B-Cell marker); Clone KLC709 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human Ig kappa chain
 Clone: KLC709
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.
 Specificity: This monoclonal antibody is specific to the kappa light chain of immunoglobulins and shows no cross-reaction with the lambda light chain or any of the five heavy chains.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0153-C.1	0.1 ml
RA0153-C.5	0.5 ml

Kappa Light Chain (B-Cell marker); Clone L1C1 (Concentrate)

Species: Mouse
 Immunogen: Human B-Lymphoma Cells
 Clone: L1C1
 Isotype: IgG1, kappa
 Species Reactivity: Human. Does not react with Rat. Others not known.
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.
 Specificity: This monoclonal antibody is specific to the kappa light chain of immunoglobulins and shows no cross-reaction with the lambda light chain or any of the five heavy chains.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0148-C.1	0.1 ml
RA0148-C.5	0.5 ml

Kappa Light Chain (B-Cell marker); Clone TB28-2 (Concentrate)

Species: Mouse
 Immunogen: Human IgG-kappa myeloma protein
 Clone: TB28-2
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: 293T, Raji or hPBL cells. Tonsil or Spleen.
 Specificity: This monoclonal antibody is specific to the kappa light chain of immunoglobulins and shows no cross-reaction with the lambda light chain or any of the five heavy chains.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0150-C.1	0.1 ml
RA0150-C.5	0.5 ml

KBA.62 (Melanoma Associated Antigen); Clone KBA.62 (Concentrate)

Species: Mouse
 Immunogen: Human KAL cells derived from lymph node metastasis of malignant melanoma
 Clone: KBA.62
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Melanoma
 Specificity: KBA.62 is a novel anti-melanoma antibody. It reacts positively against melanocytic tumors but not against other tumors, thus demonstrating specificity and sensitivity. Moreover, it reacts positively against junctional nevus cells but not intradermal nevi, and against fetal melanocytes but not normal adult melanocytes.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0416-C.1	0.1 ml
RA0416-C.5	0.5 ml

Ksp-Cadherin (Kidney-Specific Cadherin) / CDH16; Clone CDH16/1071 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human CDH16 protein
 Clone: CDH16/1071
 Isotype: IgG1, kappa
 Species Reactivity: Human, Mouse, Rat, Rabbit and Dog. Others not known.
 Positive Control: Normal kidney or renal cell carcinoma.
 Specificity: This antibody recognizes a protein of 130kDa, identified as Ksp-cadherin.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0431-C.1	0.1 ml
RA0431-C.5	0.5 ml
RA0431-C1	1 ml

Ksp-Cadherin (Kidney-Specific Cadherin) / CDH16; Clone CDH16/1532R (Concentrate)

Species: Rabbit
 Immunogen: Recombinant human full-length CDH16 protein
 Clone: CDH16/1532R
 Isotype: Rabbit / IgG, kappa
 Species Reactivity: Human, Mouse and Rat. Others not known.
 Positive Control: Normal kidney or renal cell carcinoma.
 Specificity: This monoclonal Ab recognizes a protein of 130kDa, identified as Ksp-cadherin.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0470-C.1	0.1 ml
RA0470-C.5	0.5 ml
RA0470-C1	1 ml

**Ksp-Cadherin (Kidney-Specific Cadherin) / CDH16;
Clone rCDH16/1071 (Concentrate)**

Species: Mouse
 Immunogen: Recombinant full-length human CDH16 protein
 Clone: rCDH16/1071
 Isotype: Mouse / IgG1, kappa
 Species Reactivity: Human, Mouse, Rabbit and Dog. Others not known.
 Positive Control: Normal kidney or renal cell carcinoma.
 Specificity: This MAb recognizes a protein of 130kDa, identified as Ksp-cadherin.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0468-C.1	0.1 ml
RA0468-C.5	0.5 ml
RA0468-C1	1 ml

**Ksp-Cadherin (Kidney-Specific Cadherin) / CDH16;
Clone SPM594 (Concentrate)**

Species: Mouse
 Immunogen: Recombinant human CDH16 protein
 Clone: SPM594
 Isotype: Mouse / IgG1, kappa
 Species Reactivity: Human, Mouse, Rat, Rabbit and Dog. Others not known.
 Positive Control: Normal kidney or renal cell carcinoma.
 Specificity: This antibody recognizes a protein of 130kDa, identified as Ksp-cadherin.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0469-C.1	0.1 ml
RA0469-C.5	0.5 ml
RA0469-C1	1 ml

**Lambda Light Chain (B-Cell Marker); Clone HP6054
(Concentrate)**

Species: Mouse
 Immunogen: Purified human IgG myeloma proteins coupled to polyaminostyrene microbeads.
 Clone: HP6054
 Isotype: IgG2a, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.
 Specificity: This monoclonal antibody is specific to the lambda light chain of immunoglobulins and shows no cross-reaction with the kappa light chain or any of the five heavy chains.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0156-C.1	0.1 ml
RA0156-C.5	0.5 ml

**Lambda Light Chain (B-Cell Marker); Clone ICO-106
(Concentrate)**

Species: Mouse
 Immunogen: Purified human IgG
 Clone: ICO-106
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.
 Specificity: This monoclonal antibody is specific to the lambda light chain of immunoglobulins and shows no cross-reaction with the kappa light chain or any of the five heavy chains.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0155-C.1	0.1 ml
RA0155-C.5	0.5 ml

**Lambda Light Chain (B-Cell Marker); Clone LAM03
(Concentrate)**

Species: Mouse
 Immunogen: Purified human lambda light chain
 Clone: LAM03
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.
 Specificity: This monoclonal antibody is specific to the lambda light chain of immunoglobulins and shows no cross-reaction with the kappa light chain or any of the five heavy chains.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0158-C.1	0.1 ml
RA0158-C.5	0.5 ml

**Lambda Light Chain (B-Cell Marker); Clone Lamb14
(Concentrate)**

Species: Mouse
 Immunogen: Purified human lambda light chain
 Clone: Lamb14
 Isotype: IgG2a, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.
 Specificity: This monoclonal antibody is specific to the lambda light chain of immunoglobulins and shows no cross-reaction with the kappa light chain or any of the five heavy chains.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0160-C.1	0.1 ml
RA0160-C.5	0.5 ml

Lambda Light Chain (B-Cell Marker); Clone LcN-2 & ICO-106 (Concentrate)

Species: Mouse
 Immunogen: Purified human IgG (LcN-2 & ICO-106)
 Clone: LcN-2 & ICO-106
 Isotype: IgG2a, kappa (LcN-2); IgG1, kappa (ICO-106)
 Species Reactivity: Human. Others not known.
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.
 Specificity: This monoclonal antibody is specific to the lambda light chain of immunoglobulins and shows no cross-reaction with the kappa light chain or any of the five heavy chains.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0159-C.1	0.1 ml
RA0159-C.5	0.5 ml

Lambda Light Chain (B-Cell Marker); Clone LcN-2 (Concentrate)

Species: Mouse
 Immunogen: Purified human IgG
 Clone: LcN-2
 Isotype: IgG2a, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.
 Specificity: This monoclonal antibody is specific to the lambda light chain of immunoglobulins and shows no cross-reaction with the kappa light chain or any of the five heavy chains.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0157-C.1	0.1 ml
RA0157-C.5	0.5 ml

LH, alpha (Luteinizing Hormone, alpha); Clone LHα/756 (Concentrate)

Species: Mouse
 Immunogen: Recombinant full-length hLH alpha protein.
 Clone: LHα/756
 Isotype: IgG1, kappa
 Species Reactivity: Reacts with human. Others not known.
 Positive Control: Anterior Pituitary.
 Specificity: This MAb reacts with a protein of ~13kDa, identified as alpha sub-unit of Luteinizing Hormone (LH).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0505-C.1	0.1 ml
RA0505-C.5	0.5 ml
RA0505-C1	1 ml

Macrophage Marker (Macrophage L1 Protein) (Calprotectin); Clone MAC387 (Concentrate)

Species: Mouse
 Immunogen: Affinity purified monocyte membrane preparation
 Clone: MAC387
 Isotype: IgG1, kappa
 Species Reactivity: Human, Baboon, Monkey, Cow, Pig, Goat, Horse, Cat, Dog, Rabbit, Guinea pig, Rat, and Mouse. Others not known.
 Positive Control: Tonsil, lymph node, or spleen.
 Specificity: This antibody recognizes the L1 or Calprotectin molecule, an intra-cytoplasmic antigen comprised of 12-14kDa subunits expressed by granulocytes, monocytes, and tissue macrophages. This antibody reacts with neutrophils, monocytes, macrophages, and squamous mucosal epithelia and has been shown to be an important marker for identifying macrophages in tissue sections.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0287-C.1	0.1 ml
RA0287-C.5	0.5 ml

Macrophage Marker (Myeloid-Related Proteins 8/14) (MRP-8/MRP-14); Clone MRP/840 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human MRP protein
 Clone: MRP/840
 Isotype: IgG1, kappa
 Species Reactivity: Human, Baboon, Monkey, Cow, Pig, Goat, Horse, Cat, Dog, Rabbit, Guinea pig, Rat, and Mouse. Others not known.
 Positive Control: Tonsil, lymph node, or spleen.
 Specificity: Recognizes a 12-14kDa subunit of MRP-8/14 (also known as Calgranulin A/B or S100A8/A9); expressed by granulocytes, monocytes, and tissue macrophages. This antibody reacts with neutrophils, monocytes, macrophages, and squamous mucosal epithelia and has been shown to be an important marker for identifying macrophages in tissue sections.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0290-C.1	0.1 ml
RA0290-C.5	0.5 ml

Macrophage Marker (S100A8/A9); Clone S100/722 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human S100 protein
 Clone: S100/722
 Isotype: IgG1, kappa
 Species Reactivity: Human, Baboon, Monkey, Cow, Pig, Goat, Horse, Cat, Dog, Rabbit, Guinea pig, Rat, and Mouse. Others not known.
 Positive Control: Tonsil, lymph node, or spleen.
 Specificity: Recognizes a 12-14kDa subunit of S100A8/A9 (also known as Calgranulin A/B or MRP-8/14); expressed by granulocytes, monocytes, and tissue macrophages. This antibody reacts with neutrophils, monocytes, macrophages, and squamous mucosal epithelia, and has been shown to be an important marker for identifying macrophages in tissue sections.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0289-C.1	0.1 ml
RA0289-C.5	0.5 ml

MAGE-1 (Target for Cancer Immunotherapy); Clone MA454 (Concentrate)

Species: Mouse
 Immunogen: Human MAGE-A1 full length recombinant protein
 Clone: MA454
 Isotype: IgG1, kappa
 Species Reactivity: Human, Rat and Dog. Others not known.
 Positive Control: Melanoma cell lines. Melanomas, gliomas, neuroblastoma, non-small cell lung cancer, breast, gastric, colorectal, ovarian, and renal cell carcinomas.
 Specificity: Recognizes a protein of 42-46kDa, identified as MAGE-1. This antibody does not cross-react with MAGE-2, -3, -4, -6 -9, -10, -or -12 proteins.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0201-C.1	0.1 ml
RA0201-C.5	0.5 ml

MAGE-1 (Target for Cancer Immunotherapy); Clone MZ2E/838 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human MAGEA1 protein
 Clone: MZ2E/838
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Melanoma cell lines. Melanomas, gliomas, neuroblastoma, non-small cell lung cancer, breast, gastric, colorectal, ovarian, and renal cell carcinomas.
 Specificity: Recognizes a protein of 42-46kDa, identified as MAGE-1. This antibody does not cross-react with MAGE-2, -3, -4, -6 -9, -10, -or -12 proteins.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0202-C.1	0.1 ml
RA0202-C.5	0.5 ml

MAGE-1 (Target for Cancer Immunotherapy); Clone SPM282 (Concentrate)

Species: Mouse.
 Immunogen: Human MAGE-A1 full length recombinant protein.
 Clone: SPM282.
 Isotype: IgG1, kappa.
 Species Reactivity: Reacts with human, rat, and dog. Others not known.
 Positive Control: Melanoma cell lines. Melanomas, gliomas, neuroblastoma, non-small cell lung cancer, breast, gastric, colorectal, ovarian, and renal cell carcinomas.
 Specificity: Recognizes a protein of 42-46kDa, identified as MAGE-1. This monoclonal antibody does not cross-react with MAGE-2, -3, -4, -6 -9, -10, -or -12 protein.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0576-C.1	0.1 ml
RA0576-C.5	0.5 ml
RA0576-C1	1 ml

Major Vault Protein (MVP); Clone 1014 (Concentrate)

Species: Mouse
 Immunogen: Proteins precipitated from human breast cancer MCF-7 cells
 Clone: 1014
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not tested.
 Positive Control: MCF-7/HeLa cells, breast tumors.
 Specificity: Recognizes a protein of 104kDa-110kDa, characterized as major vault protein (MVP).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0349-C.1	0.1 ml
RA0349-C.5	0.5 ml

Major Vault Protein (MVP); Clone 1032 (Concentrate)

Species: Mouse
 Immunogen: Proteins precipitated from human breast cancer MCF-7 cells
 Clone: 1032
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not tested.
 Positive Control: MCF-7/HeLa cells, breast tumors.
 Specificity: Recognizes a protein of 104kDa-110kDa, characterized as major vault protein (MVP).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0350-C.1	0.1 ml
RA0350-C.5	0.5 ml

MALT1 (MALT-Lymphoma Marker); Clone MT1/410 (Concentrate)

Species: Mouse
 Immunogen: Human MALT1 recombinant fragment (aa 701-808)
 Clone: MT1/410
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Jurkat, Daudi, or HeLa cells. Tonsil or lymphoma.
 Specificity: Highly expressed in peripheral blood mononuclear cells. Detected at lower levels in bone marrow, thymus and lymph node, and at very low levels in colon and lung.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0352-C.1	0.1 ml
RA0352-C.5	0.5 ml

MALT1 (MALT-Lymphoma Marker); Clone SPM578 (Concentrate)

Species: Mouse
 Immunogen: Human MALT1 recombinant fragment (aa701-808).
 Clone: SPM578
 Isotype: IgG1, kappa
 Species Reactivity: Reacts with human. Others not known.
 Positive Control: Jurkat, Daudi, or HeLa cells. Lymphoma.
 Specificity: Recognizes the 93kDa protein, MALT1 (aa701-808).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0509-C.1	0.1 ml
RA0509-C.5	0.5 ml
RA0509-C1	1 ml

MART-1 / Melan-A / MLANA (Melanoma Marker); Clone A103 (Concentrate)

Species: Mouse
 Immunogen: Recombinant hMART-1 protein
 Clone: A103
 Isotype: IgG1, kappa
 Species Reactivity: Human, Mouse, Rat and Dog. Others not tested.
 Positive Control: SK-MEL-13 and SK-MEL-19 Melanoma cell lines, Melanomas.
 Specificity: This monoclonal antibody recognizes a protein doublet of 20-22kDa, identified as MART-1 (Melanoma Antigen Recognized by T-cells 1) or Melan-A. This antibody labels melanomas and other tumors showing melanocytic differentiation. It is also a useful positive-marker for angiomylipomas. It does not stain tumor cells of epithelial, lymphoid, glial, or mesenchymal origin.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0114-C.1	0.1 ml
RA0114-C.5	0.5 ml
RA0114-C1	1 ml

MART-1 / Melan-A / MLANA (Melanoma Marker); Clone A103, M2-7C10 & M2-9E3 (Concentrate)

Species: Mouse
 Immunogen: Recombinant hMART-1 protein (A103; M2-7C10; M2-9E3)
 Clone: A103, M2-7C10 & M2-9E3
 Isotype: IgG1 (A103); IgG2b (M2-7C10 & M2-9E3)
 Species Reactivity: Human, Mouse, Rat and Dog. Others not tested.
 Positive Control: SK-MEL-13 and SK-MEL-19 Melanoma cell lines, Melanomas.
 Specificity: This monoclonal antibody recognizes a protein doublet of 20-22kDa, identified as MART-1 (Melanoma Antigen Recognized by T-cells 1) or Melan-A. This antibody labels melanomas and other tumors showing melanocytic differentiation. It is also a useful positive-marker for angiomylipomas. It does not stain tumor cells of epithelial, lymphoid, glial, or mesenchymal origin.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0115-C.1	0.1 ml
RA0115-C.5	0.5 ml

MART-1 / Melan-A / MLANA (Melanoma Marker); Clone DT101 & BC199 (Concentrate)

Species: Mouse
 Immunogen: Recombinant hMART-1 protein (DT101 & BC199)
 Clone: DT101 & BC199
 Isotype: IgG2b, kappa (DT101 & BC199)
 Species Reactivity: Human. Others not tested.
 Positive Control: SK-MEL-13 and SK-MEL-19 Melanoma cell lines, Melanomas.
 Specificity: This monoclonal antibody recognizes a protein doublet of 20-22kDa, identified as MART-1 (Melanoma Antigen Recognized by T-cells 1) or Melan-A. This antibody labels melanomas and other tumors showing melanocytic differentiation. It is also a useful positive-marker for angiomylipomas. It does not stain tumor cells of epithelial, lymphoid, glial, or mesenchymal origin.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0117-C.1	0.1 ml
RA0117-C.5	0.5 ml

**MART-1 / Melan-A / MLANA (Melanoma Marker);
Clone M2-7C10 & M2-9E3 (Concentrate)**

Species: Mouse

Immunogen: Recombinant hMART-1 protein (M2-7C10; M2-9E3)

Clone: M2-7C10 & M2-9E3

Isotype: IgG2b, kappa (M2-7C10 & M2-9E3)

Species Reactivity: Human, Mouse and Rat. Others not tested.

Positive Control: SK-MEL-13 and SK-MEL-19 Melanoma cell lines, Melanomas.

Specificity: This monoclonal antibody recognizes a protein doublet of 20-22kDa, identified as MART-1 (Melanoma Antigen Recognized by T-cells 1) or Melan-A. This antibody labels melanomas and other tumors showing melanocytic differentiation. It is also a useful positive-marker for angiomyolipomas. It does not stain tumor cells of epithelial, lymphoid, glial, or mesenchymal origin.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0116-C.1	0.1 ml
RA0116-C.5	0.5 ml
RA0116-C1	1 ml

**MART-1 / Melan-A / MLANA (Melanoma Marker);
Clone M2-7C10 (Concentrate)**

Species: Mouse

Immunogen: Recombinant hMART-1 protein

Clone: M2-7C10

Isotype: IgG2b, kappa

Species Reactivity: Human. Does not react with Mouse and Rat. Others not tested.

Positive Control: SK-MEL-13 and SK-MEL-19 Melanoma cell lines, Melanomas.

Specificity: This monoclonal antibody recognizes a protein doublet of 20-22kDa, identified as MART-1 (Melanoma Antigen Recognized by T-cells 1) or Melan-A. This antibody labels melanomas and other tumors showing melanocytic differentiation. It is also a useful positive-marker for angiomyolipomas. It does not stain tumor cells of epithelial, lymphoid, glial, or mesenchymal origin.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0112-C.1	0.1 ml
RA0112-C.5	0.5 ml

**MART-1 / Melan-A / MLANA (Melanoma Marker);
Clone M2-9E3 (Concentrate)**

Species: Mouse

Immunogen: Recombinant hMART-1 protein

Clone: M2-9E3

Isotype: IgG2b, kappa

Species Reactivity: Human, Mouse and Rat. Others not tested.

Positive Control: SK-MEL-13 and SK-MEL-19 Melanoma cell lines, Melanomas.

Specificity: This monoclonal antibody recognizes a protein doublet of 20-22kDa, identified as MART-1 (Melanoma Antigen Recognized by T-cells 1) or Melan-A. This antibody labels melanomas and other tumors showing melanocytic differentiation. It is also a useful positive-marker for angiomyolipomas. It does not stain tumor cells of epithelial, lymphoid, glial, or mesenchymal origin.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0113-C.1	0.1 ml
RA0113-C.5	0.5 ml

**MART-1 / Melan-A / MLANA (Melanoma Marker);
Clone MLANA/788 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human MLANA protein

Clone: MLANA/788

Isotype: IgG1, kappa

Species Reactivity: Human, Mouse, Rat and Dog. Others not tested.

Positive Control: SK-MEL-13 and SK-MEL-19 Melanoma cell lines, Melanomas.

Specificity: This monoclonal antibody recognizes a protein doublet of 20-22kDa, identified as MART-1 (Melanoma Antigen Recognized by T-cells 1) or Melan-A. This antibody labels melanomas and other tumors showing melanocytic differentiation. It is also a useful positive-marker for angiomyolipomas. It does not stain tumor cells of epithelial, lymphoid, glial, or mesenchymal origin.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0118-C.1	0.1 ml
RA0118-C.5	0.5 ml

**MCAM (Melanoma Cell Adhesion Molecule) /
MUC18 / CD146; Clone MCAM/1101 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human MCAM protein

Clone: MCAM/1101

Isotype: IgG1, kappa

Species Reactivity: Human. Others not known.

Positive Control: A-375, HUVEC, or HeLa Cells. Tonsil or Melanoma.

Specificity: This antibody recognizes a 130kDa protein known as the Melanoma Cell Adhesion Molecule.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0442-C.1	0.1 ml
RA0442-C.5	0.5 ml
RA0442-C1	1 ml

MCAM (Melanoma Cell Adhesion Molecule) / MUC18 / CD146; Clone MUC18/1130 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human MCAM protein
 Clone: MUC18/1130
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: A-375, HUVEC, or HeLa Cells. Tonsil or Melanoma.
 Specificity: This antibody recognizes a 130kDa protein known as the Melanoma Cell Adhesion Molecule.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0444-C.1	0.1 ml
RA0444-C.5	0.5 ml
RA0444-C1	1 ml

MCAM (Melanoma Cell Adhesion) / MUC18 / CD146; Clone C146/634 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human MCAM protein
 Clone: C146/634
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: A-375, HUVEC, or HeLa Cells. Tonsil or Melanoma.
 Specificity: This antibody recognizes a 130kDa protein known as the Melanoma Cell Adhesion Molecule.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0443-C.1	0.1 ml
RA0443-C.5	0.5 ml
RA0443-C1	1 ml

Melanoma Marker (MART-1 & gp100); Clone DT101, BC199, & HMB45 (Concentrate)

Species: Mouse
 Immunogen: Recombinant hMART-1 protein (DT101 & BC199); Extract of pigmented melanoma metastases from lymph nodes (HMB45).
 Clone: DT101, BC199, & HMB45
 Isotype: IgG2b (DT101 & BC199); IgG1 (HMB45).
 Species Reactivity: Human. Others not tested.
 Positive Control: SK-MEL-13 and SK-MEL-19 Melanoma cell lines. Melanomas.
 Specificity: This antibody cocktail recognizes two melanoma-specific proteins which include MART-1 and gp100.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0413-C.1	0.1 ml
RA0413-C.5	0.5 ml

Melanoma Marker (MART-1, Tyrosinase, & gp100); Clone A103, T311, & HMB45 (Concentrate)

Species: Mouse
 Immunogen: Recombinant hMART-1 protein (A103); Recombinant tyrosinase protein (T311); Extract of pigmented melanoma metastases from lymph nodes (HMB45).
 Clone: A103, T311, & HMB45
 Isotype: IgG1 (A103); IgG2a (T311); IgG1 (HMB45).
 Species Reactivity: Human. Others not tested.
 Positive Control: SK-MEL-13 and SK-MEL-19 Melanoma cell lines. Melanomas.
 Specificity: This antibody cocktail recognizes three melanoma-specific proteins which include MART-1, Tyrosinase, and gp100.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0412-C.1	0.1 ml
RA0412-C.5	0.5 ml

Melanoma Marker (MART-1, Tyrosinase, & gp100); Clone DT101, BC199, T311, & HMB45 (Concentrate)

Species: Mouse
 Immunogen: Recombinant hMART-1 protein (DT101 & BC199); Extract of pigmented melanoma metastases from lymph nodes (HMB45); Recombinant tyrosinase protein (T311).
 Clone: DT101, BC199, T311, & HMB45
 Isotype: IgG2b (DT101 & BC199); IgG1 (HMB45); IgG2a (T311).
 Species Reactivity: Human. Others not tested.
 Positive Control: SK-MEL-13 and SK-MEL-19 Melanoma cell lines. Melanomas.
 Specificity: This antibody cocktail recognizes three melanoma-specific proteins which include MART-1, Tyrosinase, and gp100.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0414-C.1	0.1 ml
RA0414-C.5	0.5 ml

Melanoma Marker (MART-1, Tyrosinase, & gp100); Clone M2-7C10, M2-9E3, T311, & HMB45 (Concentrate)

Species: Mouse
 Immunogen: Recombinant hMART-1 protein (M2-7C10; M2-9E3); Recombinant tyrosinase protein (T311); Extract of pigmented melanoma metastases from lymph nodes (HMB45).
 Clone: M2-7C10, M2-9E3, T311, & HMB45
 Isotype: IgG2b (M2-7C10 & M2-9E3); IgG2a (T311); IgG1 (HMB45).
 Species Reactivity: Human. Others not tested.
 Positive Control: SK-MEL-13 and SK-MEL-19 Melanoma cell lines. Melanomas.
 Specificity: This antibody cocktail recognizes three melanoma-specific proteins which include MART-1, Tyrosinase, and gp100.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0411-C.1	0.1 ml
RA0411-C.5	0.5 ml

Microphthalmia Transcription Factor (MITF); Clone D5 & MITF/915 (Concentrate)

Species: Mouse
 Immunogen: N-terminal fragment of human MITF protein (D5); Recombinant human MITF protein (MITF/915)
 Clone: D5 & MITF/915
 Isotype: IgG1, kappa (D5); IgG1, kappa (MITF/915)
 Species Reactivity: Human. Does not react with Mouse and Rat. Others not tested.
 Positive Control: Jurkat, A-431, HeLa or 501 Mel human melanoma cells or Melanoma.
 Specificity: Anti-MITF recognizes a nuclear protein, which is expressed in the majority of primary and metastatic epithelioid malignant melanomas as well as in normal melanocytes, benign nevi, and dysplastic nevi.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0210-C.1	0.1 ml
RA0210-C.5	0.5 ml

Microphthalmia Transcription Factor (MITF); Clone D5 (Concentrate)

Species: Mouse
 Immunogen: N-terminal fragment of human MITF protein
 Clone: D5
 Isotype: IgG1, kappa
 Species Reactivity: Human. Does not react with Mouse and Rat. Others not tested.
 Positive Control: Jurkat, A-431, HeLa or 501 Mel human melanoma cells or Melanoma.
 Specificity: Anti-MITF recognizes a nuclear protein, which is expressed in the majority of primary and metastatic epithelioid malignant melanomas as well as in normal melanocytes, benign nevi, and dysplastic nevi.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0207-C.1	0.1 ml
RA0207-C.5	0.5 ml

Microphthalmia Transcription Factor (MITF); Clone MITF/915 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human MITF protein
 Clone: MITF/915
 Isotype: IgG1, kappa
 Species Reactivity: Human and Dog. Does not react with Mouse and Rat. Others not tested.
 Positive Control: Jurkat, A-431, HeLa or 501 Mel human melanoma cells or Melanoma.
 Specificity: Anti-MITF recognizes a nuclear protein, which is expressed in the majority of primary and metastatic epithelioid malignant melanomas as well as in normal melanocytes, benign nevi, and dysplastic nevi.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0208-C.1	0.1 ml
RA0208-C.5	0.5 ml

Mitochondria (Marker for Human Cells); Clone AE-1 (Concentrate)

Species: Mouse
 Immunogen: Semi-purified mitochondrial preparation
 Clone: AE-1
 Isotype: IgG1, kappa
 Species Reactivity: Human. Does not react with Mouse and Rat. Others not known.
 Positive Control: HeLa or HepG2 cells. Hepatic carcinoma.
 Specificity: This antibody recognizes a 60kDa antigen associated with the mitochondria in human cells.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0396-C.1	0.1 ml
RA0396-C.5	0.5 ml

Mitochondria (Marker for Human Cells); Clone MTC02 (Concentrate)

Species: Mouse
 Immunogen: Semi-purified mitochondrial preparation
 Clone: MTC02
 Isotype: IgG1, kappa
 Species Reactivity: Human. Does not react with Mouse and Rat. Others not known.
 Positive Control: HeLa or HepG2 cells. Hepatic carcinoma.
 Specificity: This antibody recognizes a 60kDa antigen associated with the mitochondria in human cells.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0393-C.1	0.1 ml
RA0393-C.5	0.5 ml

Mitochondria (Marker for Human Cells, Granular RCC's & Salivary Tumors); Clone 113-1 (Concentrate)

Species: Mouse
 Immunogen: Semi-purified mitochondrial preparation
 Clone: 113-1
 Isotype: IgG1, kappa
 Species Reactivity: Human. Does not react with Mouse and Rat. Others not known.
 Positive Control: HeLa or HepG2 cells. Hepatic carcinoma.
 Specificity: This antibody recognizes a 60kDa antigen associated with the mitochondria in human cells. It can be used to stain mitochondria in cell or tissue preparations and can be used as a mitochondrial marker in subcellular fractions.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0392-C.1	0.1 ml
RA0392-C.5	0.5 ml

Mitochondrial Marker; Clone MTC719 (Concentrate)

Species: Mouse
 Immunogen: Mitochondrial fraction of HeLa cells
 Clone: MTC719
 Isotype: IgG1, kappa
 Species Reactivity: Human. Shows broad species reactivity. Does not react with insects or bacteria.
 Positive Control: HeLa or HepG2 cells. Hepatic carcinomas.
 Specificity: This antibody recognizes a 60kDa antigen associated with the mitochondria in cells.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0394-C.1	0.1 ml
RA0394-C.5	0.5 ml

Mitochondrial Marker; Clone MTC754 (Concentrate)

Species: Mouse
 Immunogen: Mitochondrial fraction of HeLa cells
 Clone: MTC754
 Isotype: IgG1, kappa
 Species Reactivity: Human. Shows broad species reactivity including insects and bacteria.
 Positive Control: HeLa or HepG2 cells. Hepatic carcinomas.
 Specificity: This antibody recognizes a 60kDa antigen associated with the mitochondria in cells.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0395-C.1	0.1 ml
RA0395-C.5	0.5 ml

Moesin; Clone MSN491 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human moesin protein
 Clone: MSN491
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: HT-29, CH3LC, or HUVEC cells. Uterus, placenta, tonsil (both B- and T-lymphocytes), skeletal muscle, thyroid, or kidney.
 Specificity: This antibody recognizes the 78kDa moesin protein.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0211-C.1	0.1 ml
RA0211-C.5	0.5 ml

MUC1 / EMA / CD227 (Epithelial Marker); Clone 139H2 (Concentrate)

Species: Mouse
 Immunogen: Human milk-fat globule membranes
 Clone: 139H2
 Isotype: IgG1, kappa
 Species Reactivity: Human and Mouse. Others not known.
 Positive Control: MCF-7 or MDA-231 cells. Breast or colon carcinoma.
 Specificity: 139H2 reacts with MUC1, a large transmembrane glycoprotein expressed on the ductal surface of normal glandular epithelia. The dominant epitope of 139H2 has not yet been determined. In immunohistochemical assays, it superbly stains routine formalin/paraffin carcinoma tissues. An antibody to MUC1 is useful as a pan-epithelial marker for detecting early metastatic loci of carcinoma in bone marrow or liver.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0217-C.1	0.1 ml
RA0217-C.5	0.5 ml

MUC1 / EMA / CD227 (Epithelial Marker); Clone E29 (Concentrate)

Species: Mouse
 Immunogen: Delipidated extract of human milk fat globule membranes
 Clone: E29
 Isotype: IgG2a, kappa
 Species Reactivity: Human. Reacts moderately with Pig and Dog. Others not known.
 Positive Control: MCF-7 or MDA-231 cells. Breast or colon carcinoma.
 Specificity: In Western blotting, this antibody recognizes proteins in a MW range of 265-400kDa, identified as different glycoforms of MUC1. This antibody reacts with the DTRP epitope within the tandem repeats. In immunohistochemical assays, it superbly stains routine formalin/paraffin carcinoma tissues. An antibody to MUC1 is useful as a pan-epithelial marker for detecting early metastatic loci of carcinoma in bone marrow or liver.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0214-C.1	0.1 ml
RA0214-C.5	0.5 ml

MUC1 / EMA / CD227 (Epithelial Marker); Clone GP1.4 & E29 (Concentrate)

Species: Mouse

Immunogen: Human milk fat globule membranes (GP1.4);
Delipidated extract of human milk fat globule membranes (E29).
Clone: GP1.4 & E29

Isotype: IgG1, kappa (GP1.4); IgG2a, kappa (E29)

Species Reactivity: Human. Reacts moderately with Pig and Dog. Others not known.

Positive Control: Breast or colon carcinoma.

Specificity: In Western blotting, this antibody recognizes proteins in a MW range of 265-400kDa, identified as different glycoforms of MUC1. This antibody reacts with the DTRP epitope within the tandem repeats. In immunohistochemical assays, it superbly stains routine formalin/paraffin carcinoma tissues. An antibody to MUC1 is useful as a pan-epithelial marker for detecting early metastatic loci of carcinoma in bone marrow or liver.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0215-C.1	0.1 ml
RA0215-C.5	0.5 ml

MUC1 / EMA / CD227 (Epithelial Marker); Clone GP1.4 (Concentrate)

Species: Mouse

Immunogen: Human milk fat globule membranes
Clone: GP1.4

Isotype: IgG1, kappa

Species Reactivity: Human. Others not known.

Positive Control: MCF-7 or MDA-231 cells. Breast or colon carcinoma.

Specificity: In Western blotting, this antibody recognizes proteins in a MW range of 265-400kDa, identified as different glycoforms of MUC1. This antibody reacts with the DTRP epitope within the tandem repeats. In immunohistochemical assays, it superbly stains routine formalin/paraffin carcinoma tissues. An antibody to MUC1 is useful as a pan-epithelial marker for detecting early metastatic loci of carcinoma in bone marrow or liver.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0212-C.1	0.1 ml
RA0212-C.5	0.5 ml

MUC1 / EMA / CD227 (Epithelial Marker); Clone HMPV (Concentrate)

Species: Mouse

Immunogen: Human breast cancer cell line ZR-75 cells

Clone: HMPV

Isotype: IgM, kappa

Species Reactivity: Human. Others not known.

Positive Control: MCF-7 or MDA-231 cells. Breast or colon carcinoma.

Specificity: HMPV recognizes full-length MUC1 in a glycosylation-independent manner and can bind to the fully glycosylated protein. The dominant epitope of HMPV is APDTR in the VNTR region. It reacts with the core peptide of the MUC1 protein. This antibody has been shown to react with both normal and malignant epithelia of various tissues including breast and colon.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0218-C.1	0.1 ml
RA0218-C.5	0.5 ml

MUC1 / EMA / CD227 (Epithelial Marker); Clone PEM/845 (Concentrate)

Species: Mouse

Immunogen: Recombinant human MUC1 protein

Clone: PEM/845

Isotype: IgG1, kappa

Species Reactivity: Human. Others not known.

Positive Control: MCF-7 or MDA-231 cells. Breast or colon carcinoma.

Specificity: In Western blotting, this antibody recognizes proteins in a MW range of 265-400kDa, identified as different glycoforms of MUC1. This antibody reacts with the DTRP epitope within the tandem repeats. In immunohistochemical assays, it superbly stains routine formalin/paraffin carcinoma tissues. An antibody to MUC1 is useful as a pan-epithelial marker for detecting early metastatic loci of carcinoma in bone marrow or liver.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0216-C.1	0.1 ml
RA0216-C.5	0.5 ml

MUC2 (Mucin 2); Clone CCP58 (Concentrate)

Species: Mouse

Immunogen: A synthetic peptide of 29 amino acids, KYPTTTPISTTTMVTPTPTGTPTTT from MUC2 protein, coupled to KLH.

Clone: CCP58

Isotype: IgG1, kappa

Species Reactivity: Human. Others not known.

Positive Control: LS174T cells or small intestine.

Specificity: Recognizes a single glycoprotein of 520kDa, identified as mucin 2 (MUC2). This antibody shows no cross-reaction with human milk fat globule membranes, MUC1, or MUC3.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0219-C.1	0.1 ml
RA0219-C.5	0.5 ml

MUC2 (Mucin 2); Clone MLP/842 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human MUC2 protein
 Clone: MLP/842
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: LS174T cells or small intestine.
 Specificity: Recognizes a single glycoprotein of 520kDa, identified as mucin 2 (MUC2). This antibody shows no cross-reaction with human milk fat globule membranes, MUC1, or MUC3.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0220-C.1	0.1 ml
RA0220-C.5	0.5 ml

MUC5AC (Mucin 5AC / Gastric Mucin); Clone 45M1 (Concentrate)

Species: Mouse
 Immunogen: M1 mucin preparation from the fluid of an ovarian mucinous cyst belonging to an O Le(a-b) patient.
 Clone: 45M1
 Isotype: IgG1, kappa
 Positive Control: Stomach
 Cellular Localization: Cytoplasmic
 Specificity: This antibody recognizes the peptide core of gastric mucin M1 (>1,000kDa) (recently identified as Mucin 5AC). Its epitope is destroyed by beta-mercaptoethanol and proteases, but not by periodate treatment. This antibody to gastric mucin M1 reacts with the gastric epithelium of normal human gastrointestinal tract as well as with the precancerous and cancerous colon, but it does not react with normal adult colon. It also reacts with fetal colonic mucosa. Resurgence of gastric mucin reactivity during colonic carcinogenesis is due to re-expression of the peptide core of gastric (or fetal colonic) mucins.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0221-C.1	0.1 ml
RA0221-C.5	0.5 ml

MUC5AC (Mucin 5AC / Gastric Mucin); Clone CLH2 (Concentrate)

Species: Mouse
 Immunogen: A synthetic peptide of human MUC5AC tandem repeat.
 Clone: CLH2
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Stomach
 Specificity: Together with a panel of antibodies, anti-MUC5AC may be useful for differential identification of primary mucinous ovarian tumors from colon adenocarcinoma metastatic to the ovary. MUC5AC antibodies may also be useful for identification of intestinal metaplasia as well as in the identification of pancreatic carcinoma and pre-cancerous changes vs. normal pancreas.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0222-C.1	0.1 ml
RA0222-C.5	0.5 ml

MUC5AC (Mucin 5AC / Gastric Mucin); Clone MUC5AC/917 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human MUC5AC protein
 Clone: MUC5AC/917
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Stomach
 Specificity: Together with a panel of antibodies, anti-MUC5AC may be useful for differential identification of primary mucinous ovarian tumors from colon adenocarcinoma metastatic to the ovary. MUC5AC antibodies may also be useful for identification of intestinal metaplasia as well as in the identification of pancreatic carcinoma and pre-cancerous changes vs. normal pancreas.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0223-C.1	0.1 ml
RA0223-C.5	0.5 ml

MUC6 (Mucin 6 / Gastric Mucin); Clone CLH5 (Concentrate)

Species: Mouse
 Immunogen: A synthetic peptide of the Gastric Mucin 6 tandem repeat sequence
 Clone: CLH5
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Stomach
 Specificity: Mucin 6 expression is highest in the stomach and gall bladder, with lower expression in the terminal ileum and right colon. In gastric cancer, Mucin 6 has an altered expression. In normal stomach, Mucin 6 is associated with Lewis type 2 antigens; Mucin 6 is also expressed in gastric metaplasia, duodenum, and pancreas. Mucin 6 is a secretory mucin, located in the deeper mucosal folds of human gall bladder, and its expression is altered with increasing degrees of inflammation.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0224-C.1	0.1 ml
RA0224-C.5	0.5 ml

MUC6 (Mucin 6 / Gastric Mucin); Clone MUC6/916 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human MUC6 protein
 Clone: MUC6/916
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Stomach
 Specificity: Mucin 6 expression is highest in the stomach and gall bladder, with lower expression in the terminal ileum and right colon. In gastric cancer, Mucin 6 has an altered expression. In normal stomach, Mucin 6 is associated with Lewis type 2 antigens; Mucin 6 is also expressed in gastric metaplasia, duodenum, and pancreas. Mucin 6 is a secretory mucin, located in the deeper mucosal folds of human gall bladder, and its expression is altered with increasing degrees of inflammation.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0225-C.1	0.1 ml
RA0225-C.5	0.5 ml

Myeloid Cell Marker (Macrophage / Granulocyte Marker); Clone BM-1 (Concentrate)

Species: Mouse
 Immunogen: Human peripheral blood mononuclear cells
 Clone: BM-1
 Isotype: IgG1
 Species Reactivity: Human. Others not known.
 Positive Control: HL60 cells. Bone marrow, lymph node or tonsil.
 Specificity: Recognizes a 183kDa protein with DNA-binding characteristics, which is identified as a myeloid specific antigen. Clone BM-1 reacts with myeloid precursor cells and granulocytes in bone marrow. Its antigen appears to be restricted to M2 and M3 acute myelogenous leukemia (AML) subtypes.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0400-C.1	0.1 ml
RA0400-C.5	0.5 ml

Myeloid-Associated Differentiation Marker (MYADM); Clone BM-2 (Concentrate)

Species: Mouse
 Immunogen: Nuclei from pokeweed mitogen stimulated human peripheral blood lymphocytes
 Clone: BM-2
 Isotype: IgG1
 Species Reactivity: Human and Macaque Monkey. Others not known.
 Positive Control: HL60 cells. Tonsil or lymph node.
 Specificity: Recognizes a myeloid associated differentiation antigen in the cytoplasm of mature granulocytes. It shows no reactivity with any other cell type in human tissues.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0366-C.1	0.1 ml
RA0366-C.5	0.5 ml

Myeloid-Associated Differentiation Marker (MYADM); Clone MYADM/971 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human MYADM protein
 Clone: MYADM/971
 Isotype: IgG1
 Species Reactivity: Human and Macaque Monkey. Others not known.
 Positive Control: HL60 cells. Tonsil or lymph node.
 Specificity: This antibody recognizes a myeloid associated differentiation antigen in the cytoplasm of mature granulocytes. It shows no reactivity with any other cell type in human tissues.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0455-C.1	0.1 ml
RA0455-C.5	0.5 ml
RA0455-C1	1 ml

Myeloid-Associated Differentiation Marker (MYADM); Clone MYADM/972 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human MYADM protein
 Clone: MYADM/972
 Isotype: IgG1
 Species Reactivity: Human and Macaque Monkey. Others not known.
 Positive Control: HL60 cells. Tonsil or lymph node.
 Specificity: This antibody recognizes a myeloid associated differentiation antigen in the cytoplasm of mature granulocytes. It shows no reactivity with any other cell type in human tissues.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0456-C.1	0.1 ml
RA0456-C.5	0.5 ml
RA0456-C1	1 ml

MyoD1 (Rhabdomyosarcoma Marker); Clone 5.8A & MYD712 (Concentrate)

Species: Mouse
 Immunogen: Recombinant mouse MyoD1 protein (5.8A); Recombinant human MyoD1 protein (MYD712)
 Clone: 5.8A & MYD712
 Isotype: IgG1, kappa (5.8A); IgG1, kappa (MYD712)
 Species Reactivity: Human, Mouse, Rat, and Chicken. Others not known.
 Positive Control: Rhabdomyosarcoma
 Specificity: Recognizes a phosphor-protein of 45kDa, identified as MyoD1. It does not cross react with myogenin, Myf5, or Myf6. This antibody to MyoD1 labels the nuclei of myoblasts in developing muscle tissues.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0233-C.1	0.1 ml
RA0233-C.5	0.5 ml

MyoD1 (Rhabdomyosarcoma Marker); Clone 5.8A (Concentrate)

Species: Mouse
 Immunogen: Recombinant mouse MyoD1 protein
 Clone: 5.8A
 Isotype: IgG1, kappa
 Species Reactivity: Human, Mouse, Rat, and Chicken. Others not known.
 Positive Control: Rhabdomyosarcoma
 Specificity: Recognizes a phosphor-protein of 45kDa, identified as MyoD1. The epitope of this antibody maps between amino acids 180-189 in the C-terminal region of the mouse MyoD1 protein. It does not cross react with myogenin, Myf5, or Myf6. This antibody to MyoD1 labels the nuclei of myoblasts in developing muscle tissues.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0231-C.1	0.1 ml
RA0231-C.5	0.5 ml

MyoD1 (Rhabdomyosarcoma Marker); Clone MYD712 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human MyoD1 protein
 Clone: MYD712
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Rhabdomyosarcoma
 Specificity: Recognizes a phosphor-protein of 45kDa, identified as MyoD1. It does not cross react with myogenin, Myf5, or Myf6. This antibody to MyoD1 labels the nuclei of myoblasts in developing muscle tissues.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0232-C.1	0.1 ml
RA0232-C.5	0.5 ml

Myogenin (Skeletal Muscle Marker); Clone F5D (Concentrate)

Species: Mouse
 Immunogen: Rat myogenin peptide (aa 73-94) followed by rat myogenin recombinant fragment (aa 30-224) (Epitope aa 138-158)
 Clone: F5D
 Isotype: IgG1, kappa
 Species Reactivity: Human, Mouse, Rat, Dog, Cat, and Pig. Others not known.
 Positive Control: Rh-30 cells. Skeletal muscle or rhabdomyosarcoma.
 Specificity: Anti-myogenin labels the nuclei of myoblasts in developing muscle tissue, and is expressed in tumor cell nuclei of rhabdomyosarcoma and some leiomyosarcomas. Positive nuclear staining may occur in Wilms' tumor.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0235-C.1	0.1 ml
RA0235-C.5	0.5 ml

Myogenin (Skeletal Muscle Marker); Clone MGN185 & F5D (Concentrate)

Species: Mouse
 Immunogen: Human myogenin recombinant protein (MGN185); Rat myogenin recombinant fragment containing amino acid 30-224 (F5D)
 Clone: MGN185 & F5D
 Isotype: IgG1, kappa
 Species Reactivity: Human, Mouse, Rat, Cat, and Pig. Others not known.
 Positive Control: Rh-30 cells. Skeletal muscle or rhabdomyosarcoma.
 Specificity: Anti-myogenin labels the nuclei of myoblasts in developing muscle tissue, and is expressed in tumor cell nuclei of rhabdomyosarcoma and some leiomyosarcomas. Positive nuclear staining may occur in Wilms' tumor.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0236-C.1	0.1 ml
RA0236-C.5	0.5 ml

Myogenin (Skeletal Muscle Marker); Clone MGN185 (Concentrate)

Species: Mouse
 Immunogen: Human myogenin recombinant protein
 Clone: MGN185
 Isotype: IgG1, kappa
 Species Reactivity: Human, Mouse, Rat, Cat and Pig. Others not known.
 Positive Control: Rh-30 cells. Skeletal muscle or rhabdomyosarcoma.
 Specificity: Anti-myogenin labels the nuclei of myoblasts in developing muscle tissue, and is expressed in tumor cell nuclei of rhabdomyosarcoma and some leiomyosarcomas. Positive nuclear staining may occur in Wilms' tumor.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0234-C.1	0.1 ml
RA0234-C.5	0.5 ml

Napsin A (Lung Adenocarcinoma Marker); Clones NAPSA/1238 & NAPSA/1239 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human Napsin-A protein fragment (aa 189-299). Exact sequence is proprietary.
 Clones: NAPSA/1238 & NAPSA/1239
 Isotype: IgG1, Kappa
 Species Reactivity: Human. Others not tested.
 Positive Control: Lung adenocarcinoma.
 Specificity: This antibody is specific for a pepsin-like aspartic proteinase identified as Napsin A.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0479-C.1	0.1 ml
RA0479-C.5	0.5 ml
RA0479-C1	1 ml

N-Cadherin / Cadherin-2 / CD325 (NCAD); Clone 13A9 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human N-cadherin cytoplasmic domain (exact sequence is proprietary)
 Clone: 13A9
 Isotype: IgG1, kappa
 Species Reactivity: Human and Mouse. Others not known.
 Positive Control: HeLa or HUVEC cells. Heart, Pancreas or Cerebral Cortex.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0463-C.1	0.1 ml
RA0463-C.5	0.5 ml
RA0463-C1	1 ml

N-Cadherin / Cadherin-2 / CD325 (NCAD); Clone 8C11 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human N-cadherin cytoplasmic domain (exact sequence is proprietary)
 Clone: 8C11
 Isotype: Mouse / IgG1, kappa
 Species Reactivity: Human and Mouse. Others not known.
 Positive Control: HeLa or HUVEC cells. Heart, Pancreas or Cerebral Cortex
 Specificity: Recognizes a protein of ~140kDa, identified as N-Cadherin (NCAD), also known as CD325.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0464-C.1	0.1 ml
RA0464-C.5	0.5 ml
RA0464-C1	1 ml

N-Cadherin / Cadherin-2 / CD325 (NCAD); Clone CDH2/1573 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human N-cadherin cytoplasmic domain (exact sequence is proprietary)
 Clone: CDH2/1573
 Isotype: Mouse / IgG1, kappa
 Species Reactivity: Human and Mouse. Others not known.
 Positive Control: HeLa or HUVEC cells. Heart, Pancreas or Cerebral Cortex
 Specificity: Recognizes a protein of ~140kDa, identified as N-Cadherin (NCAD), also known as CD325.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0465-C.1	0.1 ml
RA0465-C.5	0.5 ml
RA0465-C1	1 ml

Neurofilament (H & L) (Neuronal Marker); Clone NF421 & NFL/736 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human neurofilament heavy subunit (NF421) & light subunit (NFL/736).
 Clone: NF421 & NFL/736
 Isotype: IgG1 NF421; IgG1 NFL/736
 Species Reactivity: Human, Mouse, Rat, Chicken, and Pig. Others not known.
 Positive Control: Brain and Neuroblastoma.
 Specificity: This antibody reacts with a 200kDa and 68kDa protein, identified as heavy and light subunits of neurofilaments (NF-H & NF-L).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0408-C.1	0.1 ml
RA0408-C.5	0.5 ml

Neurofilament (H & L) (Neuronal Marker); Clone RT97 & NR-4 (Concentrate)

Species: Mouse
 Immunogen: Triton-X 100 insoluble protein fraction of rat brain (RT-97); Pig neurofilament light sub-unit (NR-4).
 Clone: RT97 & NR-4
 Isotype: IgG1 (RT97); IgG1 (NR-4)
 Species Reactivity: Human, Mouse, Rat, Chicken, and Pig. Others not known.
 Positive Control: Brain and Neuroblastoma.
 Specificity: This antibody reacts with a 200kDa and 68kDa protein, identified as heavy and light subunits of neurofilaments (NF-H & NF-L).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0407-C.1	0.1 ml
RA0407-C.5	0.5 ml

Neurofilament (NF-H) (Neuronal Marker); Clone NF421 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human neurofilament protein
 Clone: NF421
 Isotype: IgG1
 Species Reactivity: Human, Mouse, Rat, Pig and Chicken. Others not known.
 Positive Control: Brain, Neuroblastoma.
 Specificity: This antibody reacts with a 200kDa protein, identified as the heavy subunit of neurofilaments (NF-H). Anti-neurofilament stains a number of neural, neuroendocrine, and endocrine tumors. Neuromas, ganglioneuromas, gangliogliomas, ganglioneuroblastomas, and neuroblastomas stain positively for anti-neurofilament. Neurofilaments are also present in paragangliomas as well as adrenal and extra-adrenal pheochromocytomas. Carcinoids, neuroendocrine carcinomas of the skin, and oat cell carcinomas of the lung also express neurofilament.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0243-C.1	0.1 ml
RA0243-C.5	0.5 ml

Neurofilament (NF-H) (Neuronal Marker); Clone RT97 (Concentrate)

Species: Mouse
 Immunogen: Triton-X 100 insoluble protein fraction of rat brain
 Clone: RT97
 Isotype: IgG1
 Species Reactivity: Human, Mouse, Rat, Pig and Chicken.
 Others not known.
 Positive Control: Brain, Neuroblastoma.
 Specificity: This antibody reacts with a 200kDa protein, identified as the heavy subunit of neurofilaments (NF-H). Anti-neurofilament stains a number of neural, neuroendocrine, and endocrine tumors. Neuromas, ganglioneuromas, gangliogliomas, ganglioneuroblastomas, and neuroblastomas stain positively for anti-neurofilament. Neurofilaments are also present in paragangliomas as well as adrenal and extra-adrenal pheochromocytomas. Carcinoids, neuroendocrine carcinomas of the skin, and oat cell carcinomas of the lung also express neurofilament.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0244-C.1	0.1 ml
RA0244-C.5	0.5 ml

Neurofilament (NF-L) (Neuronal Marker); Clone NFL/736 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human NF-L protein
 Clone: NFL/736
 Isotype: IgG1
 Species Reactivity: Human, Rat, Pig, Cow and Chicken. Others not known.
 Positive Control: Brain, Neuroblastoma.
 Specificity: This antibody reacts with a 68kDa protein, identified as the light subunit of neurofilaments (NF-L). Anti-neurofilament stains a number of neural, neuroendocrine, and endocrine tumors. Neuromas, ganglioneuromas, gangliogliomas, ganglioneuroblastomas, and neuroblastomas stain positively for anti-neurofilament. Neurofilaments are also present in paragangliomas as well as adrenal and extra-adrenal pheochromocytomas. Carcinoids, neuroendocrine carcinomas of the skin, and oat cell carcinomas of the lung also express neurofilament.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0246-C.1	0.1 ml
RA0246-C.5	0.5 ml

Neurofilament (NF-L) (Neuronal Marker); Clone NR-4 (Concentrate)

Species: Mouse
 Immunogen: Pig neurofilament, light sub-unit (NF-L)
 Clone: NR-4
 Isotype: IgG1
 Species Reactivity: Human, Rat, Pig, Cow and Chicken. Others not known.
 Positive Control: Brain, Neuroblastoma.
 Specificity: This antibody reacts with a 68kDa protein, identified as the light subunit of neurofilaments (NF-L). Anti-neurofilament stains a number of neural, neuroendocrine, and endocrine tumors. Neuromas, ganglioneuromas, gangliogliomas, ganglioneuroblastomas, and neuroblastomas stain positively for anti-neurofilament. Neurofilaments are also present in paragangliomas as well as adrenal and extra-adrenal pheochromocytomas. Carcinoids, neuroendocrine carcinomas of the skin, and oat cell carcinomas of the lung also express neurofilament.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0245-C.1	0.1 ml
RA0245-C.5	0.5 ml

NGF-Receptor (p75) / CD271 (Soft Tissue Tumor Marker); Clone NGFR5 & NTR/912 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human p75 NGFR protein
 Clone: NGFR5 & NTR/912
 Isotype: IgG1, kappa (NGFR5); IgG1, kappa (NTR/912)
 Species Reactivity: Human and Non-human Primates. Does not react with Mouse and Rat. Others not known.
 Positive Control: Neuronal axons, Schwann cells, and perineural cells of peripheral nerves, or tumors of nerve sheath differentiation, e.g. Schwannoma, Neurofibroma. Soma and axons of sensory neurons, and ganglionic satellite cells. Melanomas.
 Specificity: Recognizes a glycoprotein of 75kDa, identified as low affinity Nerve Growth Factor (NGF) Receptor (p75, NGFR) or Neurotrophin Receptor (p75, NTR). Reportedly, anti-NGFR is a reliable marker for desmoplastic and neurotropic melanomas. Anti-NGFR stains the myoepithelial cells of breast ducts and intralobular fibroblasts of breast ducts.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0249-C.1	0.1 ml
RA0249-C.5	0.5 ml

NGF-Receptor (p75) / CD271 (Soft Tissue Tumor Marker); Clone NGFR5 (Concentrate)

Species: Mouse
 Immunogen: NGFR from A875 melanoma cells
 Clone: NGFR5
 Isotype: IgG1, kappa
 Species Reactivity: Human, Monkey, Baboon, Cat, Rabbit and Ferret. Does not react with Mouse and Rat. Others not known.
 Positive Control: Neuronal axons, Schwann cells, and perineural cells of peripheral nerves, or tumors of nerve sheath differentiation, e.g. Schwannoma, Neurofibroma. Soma and axons of sensory neurons, and ganglionic satellite cells. Melanomas.
 Specificity: Recognizes a glycoprotein of 75kDa, identified as the low affinity Nerve Growth Factor (NGF) Receptor (p75, NGFR) or Neurotrophin Receptor (p75, NTR). Its epitope resides within aa 1-160 of the extracellular domain of NGFR/NTR.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0247-C.1	0.1 ml
RA0247-C.5	0.5 ml

NGF-Receptor (p75) / CD271 (Soft Tissue Tumor Marker); Clone NTR/912 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human p75 NGFR protein
 Clone: NTR/912
 Isotype: IgG1, kappa
 Species Reactivity: Human and Non-human Primates. Does not react with Mouse and Rat. Others not known.
 Positive Control: Neuronal axons, Schwann cells, and perineural cells of peripheral nerves, or tumors of nerve sheath differentiation, e.g. Schwannoma, Neurofibroma. Soma and axons of sensory neurons, and ganglionic satellite cells. Melanomas.
 Specificity: Recognizes a glycoprotein of 75kDa, identified as low affinity Nerve Growth Factor (NGF) Receptor (p75, NGFR) or Neurotrophin Receptor (p75, NTR). Reportedly, anti-NGFR is a reliable marker for desmoplastic and neurotropic melanomas. Anti-NGFR stains the myoepithelial cells of breast ducts and intralobular fibroblasts of breast ducts.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0248-C.1	0.1 ml
RA0248-C.5	0.5 ml

NKX2.2 (Neuroendocrine & Ewing Sarcoma Marker); Clone NX2/294 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human NKX2.2 protein
 Clone: NX2/294
 Isotype: IgG2b, kappa
 Species Reactivity: Human, Mouse, Rat and Chicken. Others not known.
 Positive Control: Pancreas or Ewing sarcoma.
 Specificity: The NKX2.2 protein was identified as a target of EWS-FLI-1, the fusion protein specific to Ewing sarcoma, and was shown to be differentially upregulated in Ewing sarcoma on the basis of array-based gene expression analysis. It acts as a valuable marker for Ewing sarcoma, with a sensitivity of 93% and a specificity of 89%, and aids in the differential diagnosis of small round cell tumors.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0250-C.1	0.1 ml
RA0250-C.5	0.5 ml

NSE gamma (Neuron Specific Enolase, gamma) (Neuroendocrine Marker); Clone ENO2/1462 (Concentrate)

Species: Mouse
 Immunogen: A synthetic peptide corresponding to aa416-433 of human NSE gamma (exact sequence is proprietary)
 Clone: ENO2/1462
 Isotype: Mouse / IgG2b
 Species Reactivity: Human. Others not known.
 Positive Control: HepG2, SH-SY-5Y, HeLa or Y79 cells. Pancreas, Cerebellum or Pheochromocytoma.
 Specificity: Recognizes a protein of about 50kDa, which is identified as gamma-enolase.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0462-C.1	0.1 ml
RA0462-C.5	0.5 ml
RA0462-C1	1 ml

Nuclear Membrane Marker; Clone AE-5 (Concentrate)

Species: Mouse
 Immunogen: Nuclei of myeloid leukemia biopsy cells
 Clone: AE-5
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Tonsil.
 Specificity: This antibody recognizes an antigen associated with the nuclear membrane expressed in human cells. It can be used to stain the nuclear membrane in cell or tissue preparations and can be used as a marker of the nuclear membrane in subcellular fractions.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0402-C.1	0.1 ml
RA0402-C.5	0.5 ml

Nuclear Membrane Marker; Clone NM97 (Concentrate)

Species: Mouse
 Immunogen: Nuclei of myeloid leukemia biopsy cells
 Clone: NM97
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Human cell lines or tonsil.
 Specificity: Clone NM97 recognizes an antigen associated with the nuclear membrane expressed in human cells. It can be used to stain the nuclear membrane in cell or tissue preparations and can be used as a marker of the nuclear membrane in subcellular fractions.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0401-C.1	0.1 ml
RA0401-C.5	0.5 ml

Nuclear Mitotic Apparatus Protein (NuMA); Clone A73-B/D12 (Concentrate)

Species: Mouse
 Immunogen: Colon carcinoma 174T cells
 Clone: A73-B/D12
 Isotype: IgM, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Exponentially growing any cultured human cells. Tonsil or lymph node.
 Specificity: Recognizes a phosphorylated protein of 228kDa, identified as nuclear mitotic apparatus protein (NuMA). Its epitope is resistant to phosphatases.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0251-C.1	0.1 ml
RA0251-C.5	0.5 ml

Nucleoli Marker; Clone NM95 (Concentrate)

Species: Mouse
 Immunogen: Nuclei of myeloid leukemia biopsy cells
 Clone: NM95
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Tonsil
 Specificity: Clone NM95 recognizes an antigen associated with the nucleoli in human cells. It can be used to stain the nucleoli in cell or tissue preparations and can be used as a marker of the nucleoli in subcellular fractions.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0404-C.1	0.1 ml
RA0404-C.5	0.5 ml

Nucleolin (Marker of Nucleoli); Clone NCL/902 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human nucleolin protein
 Clone: NCL/902
 Isotype: IgG1, kappa
 Species Reactivity: Human. Does not react with Mouse, Rat and Cow. Others not known.
 Positive Control: HeLa cells, breast cancer.
 Specificity: Recognizes a protein of ~76kDa, which is identified as Nucleolin (NCL). This antibody can be used to stain the nucleoli in cell or tissue preparations and can be used as a marker of the nucleoli in subcellular fractions. It produces a speckled pattern in the nuclei of normal and malignant cells and may be used to stain the nucleoli of cells in fixed or frozen tissue sections. It can be used with paraformaldehyde-fixed frozen tissue or cell preparations and formalin-fixed, paraffin-embedded tissue sections.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0242-C.1	0.1 ml
RA0242-C.5	0.5 ml

Ornithine Decarboxylase-1 (ODC-1); Clone ODC1/485 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human ODC-1 protein
 Clone: ODC1/485
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Epithelial cells in normal placenta or prostate carcinoma.
 Specificity: Recognizes a 53kDa protein, identified as Ornithine Decarboxylase (ODC-1).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0252-C.1	0.1 ml
RA0252-C.5	0.5 ml

p21WAF1 (Tumor Suppressor Protein); Clone CIP1/823 & DCS-60.2 (Concentrate)

Species: Mouse
 Immunogen: Recombinant full-length human CDKN1A protein (CIP1/823); Human recombinant p21 protein (DCS-60.2)
 Clone: CIP1/823 & DCS-60.2
 Isotype: Mouse / IgG2a, kappa
 Species Reactivity: Human, does not react with mouse and rat. Others not known.
 Positive Control: HeLa Cells. Skin, colon, or breast carcinoma.
 Specificity: This MAb recognizes a 21kDa protein, identified as the p21WAF1 tumor suppressor protein. This MAb is highly specific to p21 and shows no cross-reaction with other closely related mitotic inhibitors.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0473-C.1	0.1 ml
RA0473-C.5	0.5 ml
RA0473-C1	1 ml

p21WAF1 (Tumor Suppressor Protein); Clone CIP1/823 (Concentrate)

Species: Mouse
 Immunogen: Human recombinant CDKN1A protein
 Clone: CIP1/823
 Isotype: IgG2a, kappa
 Species Reactivity: Human. Does not react with Mouse and Rat. Others not known.
 Positive Control: HeLa Cells. Skin, colon, or breast carcinoma.
 Specificity: This antibody recognizes a 21kDa protein, identified as the p21WAF1 tumor suppressor protein. It is highly specific to p21 and shows no cross-reaction with other closely related mitotic inhibitors.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0076-C.1	0.1 ml
RA0076-C.5	0.5 ml

p21WAF1 (Tumor Suppressor Protein); Clone HJ21 (Concentrate)

Species: Mouse
 Immunogen: Human recombinant p21 protein
 Clone: HJ21
 Isotype: Mouse / IgG1, kappa
 Species Reactivity: Human, Monkey, Chimpanzee, Mouse and Rat. Others not known.
 Positive Control: HeLa Cells. Skin, colon, or breast carcinoma.
 Specificity: This MAb recognizes a 21kDa protein, identified as the p21WAF1 tumor suppressor protein. It is highly specific to p21 and shows no cross-reaction with other closely related mitotic inhibitors.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0472-C.1	0.1 ml
RA0472-C.5	0.5 ml
RA0472-C1	1 ml

p21WAF1 (Tumor Suppressor Protein); Clone SPM306 (Concentrate)

Species: Mouse
 Immunogen: Human recombinant p21 protein
 Clone: SPM306
 Isotype: IgG2a, kappa
 Species Reactivity: Human, does not react with mouse and rat. Others not known.
 Positive Control: HeLa Cells. Skin, colon, or breast carcinoma.
 Specificity: This MAb recognizes a 21kDa protein, identified as the p21WAF1 tumor suppressor protein. This MAb is highly specific to p21 and shows no cross-reaction with other closely related mitotic inhibitors.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0471-C.1	0.1 ml
RA0471-C.5	0.5 ml
RA0471-C1	1 ml

p21WAF1 (Tumor Suppressor Protein); Clone WA-1 (HJ21) (Concentrate)

Species: Mouse
 Immunogen: Human recombinant p21 protein
 Clone: WA-1 (HJ21)
 Isotype: IgG1, kappa
 Species Reactivity: Human, Monkey, Mouse and Rat. Others not known.
 Positive Control: HeLa Cells. Skin, colon, or breast carcinoma.
 Specificity: This antibody recognizes a 21kDa protein, identified as the p21WAF1 tumor suppressor protein. It is highly specific to p21 and shows no cross-reaction with other closely related mitotic inhibitors.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0074-C.1	0.1 ml
RA0074-C.5	0.5 ml

p27Kip1 (Mitotic Inhibitor/Suppressor Protein); Clone DCS-72.F6 & KIP1/769 (Concentrate)

Species: Mouse
 Immunogen: Mouse recombinant p27 protein (DCS-72.F6); Recombinant human CDKN1B protein (KIP1/769)
 Clone: DCS-72.F6 + KIP1/769
 Isotype: Mouse / IgG's
 Species Reactivity: Human, monkey, mouse and rat. Others not known.
 Positive Control: ZR75, T47D, SK-BR-3, MDA-MB-231, HeLa or MCF7 cells. Tonsil, Breast, Cervical or Colon Carcinoma.
 Specificity: Recognizes a 27kDa protein, identified as the p27Kip1, a cell cycle regulatory mitotic inhibitor. It is highly specific and shows no cross-reaction with other related mitotic inhibitors.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0475-C.1	0.1 ml
RA0475-C.5	0.5 ml
RA0475-C1	1 ml

p27Kip1 (Mitotic Inhibitor/Suppressor Protein); Clone DCS-72.F6 (Concentrate)

Species: Mouse
 Immunogen: Mouse recombinant p27 protein
 Clone: DCS-72.F6
 Isotype: IgG1, kappa
 Species Reactivity: Human, Mouse, Rat and Monkey. Others not known
 Positive Control: ZR75, T47D, SK-BR-3, MDA-MB-231, MCF7 cells. Tonsil, Breast or Colon Carcinoma.
 Specificity: Recognizes a 27kDa protein, identified as p27Kip1, a cell cycle regulatory mitotic inhibitor. Its epitope spans between amino acids 83-204 of p27. It is highly specific and shows no cross-reaction with other related mitotic inhibitors.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0079-C.1	0.1 ml
RA0079-C.5	0.5 ml

p27Kip1 (Mitotic Inhibitor/Suppressor Protein); Clone KIP1/769 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human CDKN1B protein
 Clone: KIP1/769
 Isotype: IgG1, kappa
 Species Reactivity: Human, Mouse, Rat and Monkey. Others not known.
 Positive Control: ZR75, T47D, SK-BR-3, MDA-MB-231, MCF7 cells. Tonsil, breast or colon carcinoma.
 Specificity: This antibody recognizes a 27kDa protein, identified as p27Kip1, a cell cycle regulatory mitotic inhibitor. It is highly specific and shows no cross-reaction with other related mitotic inhibitors.

<u>Catalog Number</u>	<u>Volume</u>
RA0078-C.1	0.1 ml
RA0078-C.5	0.5 ml

p27Kip1 (Mitotic Inhibitor/Suppressor Protein); Clone SPM348 (Concentrate)

Species: Mouse
 Immunogen: Purified GST-p27 fusion protein of mouse origin
 Clone: SPM348
 Isotype: Mouse / IgG1, kappa
 Species Reactivity: Human, mouse, rat and monkey. Others not known
 Positive Control: ZR75, T47D, SK-BR-3, MDA-MB-231, MCF7 cells. Tonsil, Breast or Colon Ca
 Specificity: This MAb recognizes a 27kDa protein, identified as the p27Kip1, a cell cycle regulatory mitotic inhibitor. It is highly specific and shows no cross-reaction with other related mitotic inhibitors.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0474-C.1	0.1 ml
RA0474-C.5	0.5 ml
RA0474-C1	1 ml

p27Kip1 (Mitotic Inhibitor/Suppressor Protein); Clone SX53G8 (Concentrate)

Species: Mouse
 Immunogen: Purified GST-p27 fusion protein of human origin
 Clone: SX53G8
 Isotype: IgG1, kappa
 Species Reactivity: Human, Mouse, Rat and Monkey. Others not known.
 Positive Control: ZR75, T47D, SK-BR-3, MDA-MB-231, MCF7 cells. Tonsil, breast or colon carcinoma.
 Specificity: This antibody recognizes a 27kDa protein, identified as p27Kip1, a cell cycle regulatory mitotic inhibitor. It is highly specific and shows no cross-reaction with other related mitotic inhibitors.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0077-C.1	0.1 ml
RA0077-C.5	0.5 ml

p53 Tumor Suppressor Protein; Clone BP53-12 & DO-7 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human wild-type p53 protein (BP53-12); Recombinant human wild type p53 protein expressed in E. coli (DO-7).
 Clone: BP53-12 & DO-7
 Isotype: IgG2a (BP53-12); IgG2b, kappa (DO-7)
 Species Reactivity: Human, Monkey, and Cow. Others not known.
 Positive Control: MDA-MB-231 Cells. Breast or colon carcinoma.
 Specificity: Recognizes a 53kDa protein, which is identified as p53 suppressor gene product. It reacts with the mutant as well as the wild type form of p53 under denaturing and non-denaturing conditions. Its epitope maps within the N-terminus (aa 20-25) of p53.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0321-C.1	0.1 ml
RA0321-C.5	0.5 ml

p53 Tumor Suppressor Protein; Clone BP53-12 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human wild type p53 protein
 Clone: BP53-12
 Isotype: IgG2a
 Species Reactivity: Human. Does not react with Mouse and Rat. Others not known.
 Positive Control: MDA-MB-231 Cells. Breast or colon carcinoma.
 Specificity: Recognizes a 53kDa protein, which is identified as p53 suppressor gene product. It reacts with the mutant as well as the wild type form of p53 under denaturing and non-denaturing conditions. Its epitope maps within the N-terminus (aa 20-25) of p53 oncoprotein.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0318-C.1	0.1 ml
RA0318-C.5	0.5 ml

p53 Tumor Suppressor Protein; Clone DO-7 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human wild type p53 protein expressed in E. coli.
 Clone: DO-7
 Isotype: IgG2b, kappa
 Species Reactivity: Human, Monkey, and Cow. Others not known.
 Positive Control: MDA-MB-231 Cells. Breast or colon carcinoma.
 Specificity: Recognizes a 53kDa protein, which is identified as p53 suppressor gene product. It reacts with the mutant as well as the wild type form of p53. Its epitope maps within the N-terminus (aa 37-45) of p53.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0319-C.1	0.1 ml
RA0319-C.5	0.5 ml

p53 Tumor Suppressor Protein; Clone TRP/816 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human TP53 protein
 Clone: TRP/816
 Isotype: IgG2a
 Species Reactivity: Human. Others not known.
 Positive Control: MDA-MB-231 Cells. Breast or colon carcinoma.
 Specificity: Recognizes a 53kDa protein, which is identified as p53 suppressor gene product. It reacts with the mutant as well as the wild type form of p53 under denaturing and non-denaturing conditions.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0322-C.1	0.1 ml
RA0322-C.5	0.5 ml

p53 Tumor Suppressor Protein; Clone TRP/817 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human TP53 protein
 Clone: TRP/817
 Isotype: IgG2b, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: MDA-MB-231 Cells. Breast or colon carcinoma.
 Specificity: Recognizes a 53kDa protein, which is identified as p53 suppressor gene product. It reacts with the mutant as well as the wild type form of p53 protein.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0323-C.1	0.1 ml
RA0323-C.5	0.5 ml

p57Kip2 (Mitotic Inhibitor/Suppressor Protein); Clone 57P06 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human p57Kip2 protein
 Clone: 57P06
 Isotype: IgG2b, kappa
 Species Reactivity: Human and Mouse. Others-not known
 Positive Control: LS174T, Raji, HT29, SK-BR3 cells. Colon or Prostate carcinomas.
 Specificity: Recognizes a protein of 57kDa, identified as p57Kip2. It shows no cross-reaction with p27Kip1.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0478-C.1	0.1 ml
RA0478-C.5	0.5 ml
RA0478-C1	1 ml

p57Kip2 (Mitotic Inhibitor/Suppressor Protein); Clone KIP2/880 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human p57Kip2 protein
 Clone: KIP2/880
 Isotype: IgG2b, kappa
 Species Reactivity: Human and Mouse. Others not known.
 Positive Control: LS174T, Raji, HT29, SK-BR3 cells. Colon carcinomas.
 Specificity: Recognizes a protein of 57kDa, identified as p57Kip2. It shows no cross-reaction with p27Kip1.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0081-C.1	0.1 ml
RA0081-C.5	0.5 ml

p57Kip2 (Mitotic Inhibitor/Suppressor Protein); Clone KP10 & KIP2/880 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human p57Kip2 protein
 Clone: KP10 + KIP2/880
 Isotype: IgG's
 Species Reactivity: Human and Mouse. Others: not known
 Positive Control: LS174T, Raji, HT29, SK-BR3 cells. Colon or Prostate carcinomas.
 Specificity: Recognizes a protein of 57kDa, identified as p57Kip2. It shows no cross-reaction with p27Kip1.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0477-C.1	0.1 ml
RA0477-C.5	0.5 ml
RA0477-C1	1 ml

p57Kip2 (Mitotic Inhibitor/Suppressor Protein); Clone KP10 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human p57Kip2 protein
 Clone: KP10
 Isotype: IgG2b, kappa
 Species Reactivity: Human and Mouse. Others not known.
 Positive Control: LS174T, Raji, HT29, SK-BR3 cells. Colon carcinomas.
 Specificity: Recognizes a protein of 57kDa, identified as p57Kip2. It shows no cross-reaction with p27Kip1.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0080-C.1	0.1 ml
RA0080-C.5	0.5 ml

p57Kip2 (Mitotic Inhibitor/Suppressor Protein); Clone SPM308 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human p57Kip2 protein
 Clone: SPM308
 Isotype: IgG2b, kappa
 Species Reactivity: Human and mouse. Others not known
 Positive Control: LS174T, Raji, HT29, SK-BR3 cells. Colon or Prostate carcinomas.
 Specificity: Recognizes a protein of 57kDa, identified as p57Kip2. It shows no cross-reaction with p27Kip1.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0476-C.1	0.1 ml
RA0476-C.5	0.5 ml
RA0476-C1	1 ml

Parathyroid Hormone (PTH); Clone 3H9 (Concentrate)

Species: Mouse
 Immunogen: Synthetic peptide corresponding to amino acids 1 to 34 of mature PTH conjugated to a carrier
 Clone: 3H9
 Isotype: IgG2b, kappa
 Species Reactivity: Human. Predicted to react with Mouse, Rat, Rabbit, Cow, Dog, Pig, Deer, and Orangutan.
 Positive Control: Human parathyroid gland carcinoma.
 Specificity: The epitope of this antibody maps in between amino acids 1-34.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0272-C.1	0.1 ml
RA0272-C.5	0.5 ml

Parathyroid Hormone (PTH); Clone PTH1/911 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human PTH polypeptide
 Clone: PTH1/911
 Isotype: IgG2b, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Human parathyroid gland carcinoma.
 Specificity: The epitope of this antibody maps in between amino acids 1-34.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0273-C.1	0.1 ml
RA0273-C.5	0.5 ml

P-Cadherin (CDH3); Clone 12H6 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human full-length P-cadherin fusion protein
 Clone: 12H6
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: A431 or PC-3 cells. Pancreas, Placenta or Prostate
 Specificity: Recognizes a protein of 116kDa, identified as P-Cadherin-1 (CDH3).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0466-C.1	0.1 ml
RA0466-C.5	0.5 ml
RA0466-C1	1 ml

P-Cadherin (CDH3); Clone 6A9 (Concentrate)

Species: Mouse
 Immunogen: A431 trypsinized membranes
 Clone: 6A9
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: A431 or PC-3 cells. Pancreas, Placenta or Prostate
 Specificity: Recognizes a protein of 116kDa, identified as P-Cadherin-1 (CDH3).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0467-C.1	0.1 ml
RA0467-C.5	0.5 ml
RA0467-C1	1 ml

PCNA (Proliferating Cell Nuclear Antigen) (G1- & S-phase Marker); Clone PC10 (Concentrate)

Species: Mouse
 Immunogen: Rat PCNA/Protein A fusion protein
 Clone: PC10
 Isotype: IgG2a, kappa
 Species Reactivity: Human, Monkey, Pig, Mouse, Rat, Chicken, Zebrafish, Drosophila melanogaster and Yeast (*S. pombe* & *S. cerevisiae*). Others not known.
 Positive Control: Tonsil or reactive lymph node.
 Specificity: Recognizes a non-histone protein of 36kDa, which is identified as proliferating cell nuclear antigen (PCNA). It is also known as cyclin or polymerase delta auxiliary protein.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0253-C.1	0.1 ml
RA0253-C.5	0.5 ml

PDCD1 / PD1 / CD279 (Programmed Cell Death 1); Clone NAT105 (Concentrate)

Species: Mouse
 Immunogen: TY cells (human T/NK cell Leukemia)
 Clone: NAT105
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: TY cells or Tonsil.
 Specificity: Anti-PDCD1 is a marker of angioimmunoblastic lymphoma and suggests a unique cell of origin for this neoplasm.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0254-C.1	0.1 ml
RA0254-C.5	0.5 ml

PDCD1 / PD1 / CD279 (Programmed Cell Death 1); Clone PDCD1/922 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human PDCD1 protein
 Clone: PDCD1/922
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: TY cells or Tonsil.
 Specificity: Anti-PDCD-1 is a marker of angioimmunoblastic lymphoma and suggests a unique cell of origin for this neoplasm.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0255-C.1	0.1 ml
RA0255-C.5	0.5 ml

PD-L1 / PDCD1LG1 / CD274 / B7-H1; Clone PDL1/2746 (Concentrate)

Species: Mouse
 Immunogen: Recombinant fragment of human CD274 protein (around aa 39-191). Exact sequence is proprietary.
 Clone: PDL1/2746
 Isotype: IgG2b, kappa
 Species Reactivity: Human and Mouse. Others not tested.
 Positive Control: Heart, Placenta, Spleen or Tonsil. RAW, HEK293 or HepG2 cell lysates. Jurkat cells.
 Specificity: This antibody reacts with PD-L1, also known as B7-H1 or CD274.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0501-C.1	0.1 ml
RA0501-C.5	0.5 ml
RA0501-C1	1 ml

PGP9.5 / Uchl1 (pan-Neuronal Marker); Clone 31A3 (Concentrate)

Species: Mouse
 Immunogen: Native Uchl1 (PGP9.5) protein from brain
 Clone: 31A3
 Isotype: IgG1, kappa
 Species Reactivity: Human, Mouse, Rat, Cow, and Pig. Others not known.
 Positive Control: Cerebellum
 Specificity: This antibody reacts with a protein of 20-30kDa, identified as ubiquitin carboxyl-terminal hydrolase-1 (Uchl1).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0333-C.1	0.1 ml
RA0333-C.5	0.5 ml

PGP9.5 / Uchl1 (pan-Neuronal Marker); Clone PARK5/775 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human UCHL1 protein
 Clone: PARK5/775
 Isotype: IgG1, kappa
 Species Reactivity: Human. Shows a broad species reactivity.
 Positive Control: Cerebellum
 Specificity: This antibody reacts with a protein of 20-30kDa, identified as ubiquitin carboxyl-terminal hydrolase-1 (Uchl1).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0334-C.1	0.1 ml
RA0334-C.5	0.5 ml

Phosphotyrosine (P-Tyr); Clone PTR/793 (Concentrate)

Species: Mouse
 Immunogen: Phosphotyrosine conjugated to BSA
 Clone: PTR/793
 Isotype: IgG2b
 Species Reactivity: All species.
 Positive Control: MCF-7, MDA-231, T47-D cells or breast carcinoma.
 Specificity: This antibody shows no cross-reaction with other phosphoamino acids and is superb for multiple applications including staining of formalin-fixed, paraffin-embedded tissues.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0420-C.1	0.1 ml
RA0420-C.5	0.5 ml

Phosphotyrosine (P-Tyr); Clone PY20 (Concentrate)

Species: Mouse
 Immunogen: Phosphotyrosine conjugated to KLH
 Clone: PY20
 Isotype: IgG2b
 Species Reactivity: All species
 Positive Control: MCF-7, MDA-231, T47-D cells or breast carcinoma.
 Specificity: This antibody shows no cross-reaction with other phosphoamino acids and is superb for multiple applications, including staining of formalin-fixed, paraffin-embedded tissues.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0419-C.1	0.1 ml
RA0419-C.5	0.5 ml

Placental Alkaline Phosphatase (PLAP) (Germ Cell Tumor Marker); Clone ALP/870 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human PLAP protein
 Clone: ALP/870
 Isotype: IgG2b, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: HepG2 cells. Placenta or seminoma.
 Specificity: Reacts with a 70kDa membrane-bound isozyme (Regan and Nagao type) of Placental Alkaline Phosphatase (PLAP) occurring in the placenta during the 3rd trimester of gestation. It is highly specific for PLAP and shows no cross-reaction with other isozymes of alkaline phosphatase.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0005-C.1	0.1 ml
RA0005-C.5	0.5 ml

Placental Alkaline Phosphatase (PLAP) (Germ Cell Tumor Marker); Clone GM022 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human PLAP protein
 Clone: GM022
 Isotype: IgG2b, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: HepG2 cells. Placenta or seminoma.
 Specificity: Reacts with a 70kDa membrane-bound isozyme (Regan and Nagao type) of Placental Alkaline Phosphatase (PLAP) occurring in the placenta during the 3rd trimester of gestation. It is highly specific for PLAP and shows no cross-reaction with other isozymes of alkaline phosphatase.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0006-C.1	0.1 ml
RA0006-C.5	0.5 ml

Placental Alkaline Phosphatase (PLAP) (Germ Cell Tumor Marker); Clone PL8-F6 (Concentrate)

Species: Mouse
 Immunogen: Purified human PLAP protein
 Clone: PL8-F6
 Isotype: IgG2b, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: HepG2 cells. Placenta or seminoma.
 Specificity: Reacts with a 70kDa membrane-bound isozyme (Regan and Nagao type) of Placental Alkaline Phosphatase (PLAP) occurring in the placenta during the 3rd trimester of gestation. It is highly specific for PLAP and shows no cross-reaction with other isozymes of alkaline phosphatase.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0007-C.1	0.1 ml
RA0007-C.5	0.5 ml

Plasma Cell Marker; Clone LIV3G11 (7B18) (Concentrate)

Species: Mouse
 Immunogen: Pancreatic cancer-related mucin
 Clone: LIV3G11; same as 7B18
 Isotype: IgG2a
 Species Reactivity: Human. Does not react with Rat. Others not known.
 Positive Control: Tonsil or lymph node.
 Specificity: This antibody recognizes an intra-cytoplasmic antigen, which shows a very high degree of specificity for plasma cells. This antigen is present in normal as well as neoplastic plasma cells.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0398-C.1	0.1 ml
RA0398-C.5	0.5 ml

PNL2 (Melanoma Associated Antigen); Clone PNL2 (Concentrate)

Species: Mouse
 Immunogen: Melanocyte antigen
 Clone: PNL2
 Isotype: IgG1
 Species Reactivity: Human, Mouse and Dog. Others not known.
 Positive Control: Melanoma
 Specificity: Anti-PNL2 is a novel monoclonal antibody which has recently been introduced as an immunohistochemical reagent to stain melanocytes and tumors derived therefrom. The antigen recognized by PNL2 is different from Melan A and gp100. Its epitope is not destroyed by digestion with neuraminidase, i.e., its epitope is not glycosylated.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0415-C.1	0.1 ml
RA0415-C.5	0.5 ml

Podocalyxin (PODXL) (Hematopoietic Stem Cell Marker); Clone 3D3 (Concentrate)

Species: Mouse

Immunogen: A recombinant protein fragment containing the intracellular, transmembrane, and part of the extracellular domain of human podocalyxin

Clone: 3D3

Isotype: IgG1

Species Reactivity: Human, Rabbit, and Rat. Others not known.

Positive Control: HeLa, Raji, Jurkat cells, and angiosarcoma.

Specificity: The podocalyxin antibody can identify podocytes in the urine (podocyturia) that may indicate glomerular disease, pre-eclampsia, and other kidney pathology.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0264-C.1	0.1 ml
RA0264-C.5	0.5 ml

Podoplanin (PDPN) (Lymphatic Endothelial & Mesothelial Marker); Clone PDPN/1433 (Concentrate)

Species: Mouse

Immunogen: Recombinant human Podoplanin (PDPN) protein fragment (aa24-126) (exact sequence is proprietary).

Clone: PDPN/1433

Isotype: IgG1, kappa

Species Reactivity: Human. Others-not known.

Positive Control: HeLa Cells. Angiosarcoma or Mesothelioma.

Specificity: This antibody recognizes a muco-protein of 38-43kDa, which is identified Podoplanin (PDPN).

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0495-C.1	0.1 ml
RA0495-C.5	0.5 ml
RA0495-C1	1 ml

Progesterone Receptor (Marker of Progestin Dependence); Clone PR484 (Concentrate)

Species: Mouse

Immunogen: Recombinant human Progesterone Receptor protein

Clone: PR484

Isotype: IgG1, kappa

Species Reactivity: Human. Others not known.

Positive Control: T47-D cells or breast cancers.

Specificity: This antibody is specific to the progesterone receptor and shows minimal cross-reaction with other members of the family.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0263-C.1	0.1 ml
RA0263-C.5	0.5 ml

Prolactin Receptor (PRL-R); Clone B6.2 & PRLR742 (Concentrate)

Species: Mouse

Immunogen: Semi-purified human prolactin receptor (B6.2); Recombinant human prolactin receptor (PRLR742)

Clone: B6.2 & PRLR742

Isotype: IgG1, kappa (B6.2); IgG1, kappa (PRLR742)

Species Reactivity: Human. Others not known.

Positive Control: Breast, placenta, liver or pancreas.

Specificity: This antibody recognizes a protein of 70kDa identified as the prolactin receptor.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0271-C.1	0.1 ml
RA0271-C.5	0.5 ml

Prolactin Receptor (PRL-R); Clone B6.2 (Concentrate)

Species: Mouse

Immunogen: Semi-purified human prolactin receptor

Clone: B6.2

Isotype: IgG1, kappa

Species Reactivity: Human. Others not known.

Positive Control: Breast, placenta, liver or pancreas.

Specificity: This antibody recognizes a protein of 70kDa identified as the prolactin receptor.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0269-C.1	0.1 ml
RA0269-C.5	0.5 ml

Prolactin Receptor (PRL-R); Clone PRLR742 (Concentrate)

Species: Mouse

Immunogen: Recombinant human prolactin receptor

Clone: PRLR742

Isotype: IgG1, kappa

Species Reactivity: Human. Others not known.

Positive Control: Breast, placenta, liver or pancreas.

Specificity: This antibody recognizes a protein of 70kDa identified as the prolactin receptor.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0270-C.1	0.1 ml
RA0270-C.5	0.5 ml

Prostate Specific Antigen (PSA); Clone A67-B/E3 (Concentrate)

Species: Mouse
 Immunogen: PSA from human sperm plasma
 Clone: A67-B/E3
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: PC12 cells or normal prostate or prostate carcinoma.
 Specificity: Recognizes a single protein of 33-34kDa, identified as the prostate specific antigen (PSA). This MAb is highly specific to PSA and stains prostatic secretory and ductal epithelium in both normal and neoplastic tissues.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0008-C.1	0.1 ml
RA0008-C.5	0.5 ml
RA0008-C1	1 ml

Prostate Specific Antigen (PSA); Clone KLK3/801 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human KLK3 protein
 Clone: KLK3/801
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: PC12 cells or normal prostate or prostate carcinoma.
 Specificity: Recognizes a single protein of 33-34kDa, identified as the prostate specific antigen (PSA). This MAb is highly specific to PSA and stains prostatic secretory and ductal epithelium in both normal and neoplastic tissues.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0009-C.1	0.1 ml
RA0009-C.5	0.5 ml

pS2 / pNR-2 / Trefoil Factor 1 (Estrogen-Regulated Protein); Clone GE2 (R47/94) (Concentrate)

Species: Mouse
 Immunogen: Synthetic peptide of 28 amino acid residues corresponding to CFDDTVRGVPWCFYPNTIDVPPEEECEF (aa 57-84) from the C-terminus of human pS2.
 Clone: GE2; same as R47/94
 Isotype: IgG1, kappa
 Species Reactivity: Human and Cynomolgus Monkey. Others not known.
 Positive Control: Spent medium of MCF-7 cells, treated with estrogen. Normal stomach. About 60% of breast carcinomas are positive for pS2, especially those that are also positive for estrogen and/or progesterone receptor.
 Specificity: This antibody recognizes a polypeptide of 6.5kDa, identified as pS2 estrogen-regulated protein. Its epitope is localized between aa 57-84 of human pS2 protein.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0300-C.1	0.1 ml
RA0300-C.5	0.5 ml

pS2 / pNR-2 / Trefoil Factor 1 (Estrogen-Regulated Protein); Clone TFF1/1091 (Concentrate)

Species: Mouse
 Immunogen: A synthetic peptide from the C-terminus of human TFF1 protein.
 Clone: TFF1/1091
 Isotype: IgG1, kappa
 Species Reactivity: Human and Monkey. Others not known.
 Positive Control: Spent medium of MCF-7 cells, treated with estrogen. Normal stomach. About 60% of breast carcinomas are positive for pS2, especially those that are also positive for estrogen and/or progesterone receptor.
 Specificity: This antibody recognizes a polypeptide of 6.5kDa, identified as pS2 estrogen-regulated protein. Its epitope is located in the C-terminus of the human pS2 protein.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0452-C.1	0.1 ml
RA0452-C.5	0.5 ml
RA0452-C1	1 ml

Retinol Binding Protein-1 (RBP1); Clone G4E4 (Concentrate)

Species: Mouse
 Immunogen: Retinol binding protein-1 purified from human plasma
 Clone: G4E4
 Isotype: IgG1, kappa
 Species Reactivity: Human, Chimpanzee, Monkey, Goat, Rabbit, Rat, and Mouse. Others not tested.
 Positive Control: Liver
 Specificity: This antibody recognizes an epitope within the 74-182 C-terminal sequence (11kD peptide fragment) of human serum Retinol Binding Protein 1 (RBP1).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0446-C.1	0.1 ml
RA0446-C.5	0.5 ml
RA0446-C1	1 ml

Retinol Binding Protein-1 (RBP1); Clone RBP/872 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human retinol binding protein-1 (RBP1)
 Clone: RBP/872
 Isotype: IgG1, kappa
 Species Reactivity: Human, Monkey, Goat, Rabbit, Rat, and Mouse. Others not tested.
 Positive Control: Liver
 Specificity: This antibody recognizes a protein of 21kDa-25kDa, identified as retinol binding protein-1 (RBP1).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0447-C.1	0.1 ml
RA0447-C.5	0.5 ml
RA0447-C1	1 ml

S100 (Astrocyte Marker); Clone 4C4.9 (Concentrate)

Species: Mouse
 Immunogen: Purified bovine brain S100 protein
 Clone: 4C4.9
 Isotype: IgG2a, kappa
 Species Reactivity: Human, Mouse, Rat, Cow. Others not known.
 Positive Control: Brain and Melanoma.
 Specificity: S-100 protein has been found in normal melanocytes, Langerhans cells, histiocytes, chondrocytes, lipocytes, skeletal and cardiac muscle, Schwann cells, epithelial and myoepithelial cells of the breast, salivary and sweat glands, as well as in glial cells. Neoplasms derived from these cells also express S-100 protein, albeit non-uniformly. A large number of well-differentiated tumors of the salivary gland, adipose and cartilaginous tissue, and Schwann cell-derived tumors express S-100 protein. Almost all malignant melanomas and cases of histiocytosis X are positive for S-100 protein.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0285-C.1	0.1 ml
RA0285-C.5	0.5 ml

S100A7 / HID5 / Psoriasis (Proliferative Epithelial Cell Marker); Clone S100A7/542 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human S100A7 protein
 Clone: S100A7/542
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: MCF-7 cells. Breast carcinoma.
 Specificity: This antibody recognizes a protein of 11kDa, identified as S100A7. This protein is markedly over-expressed in the skin lesions of psoriatic patients. This protein is found to have elevated expression in abnormally differentiating primary keratinocytes and in various carcinomas, including ductal carcinoma in situ. It may serve as a marker of abnormally proliferative epithelia.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0286-C.1	0.1 ml
RA0286-C.5	0.5 ml

Secretory Component / ECM1; Clone ECM1/792 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human ECM1 protein
 Clone: ECM1/792
 Isotype: IgG1, kappa
 Species Reactivity: Human and Rat. Others not known.
 Positive Control: Stomach, lung, or breast tumor.
 Specificity: This antibody reacts with a reduction-resistant epitope present in both free and SIgA bound Secretory Component. It does not react with the cell lines lacking Secretory Component.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0106-C.1	0.1 ml
RA0106-C.5	0.5 ml

Secretory Component / ECM1; Clone SC05 (Concentrate)

Species: Mouse
 Immunogen: Secretory Component protein isolated from human colostrum
 Clone: SC05
 Isotype: IgG1, kappa
 Species Reactivity: Human and Rat. Others not known.
 Positive Control: Stomach, lung, or breast tumor.
 Specificity: This antibody reacts with a reduction-resistant epitope present in both free and SIgA bound Secretory Component. It does not react with the cell lines lacking Secretory Component.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0105-C.1	0.1 ml
RA0105-C.5	0.5 ml

Secretory Component / ECM1; Clone SPM217 (Concentrate)

Species: Mouse.
 Immunogen: Secretory Component protein isolated from human colostrum.
 Clone: SPM217.
 Isotype: IgG1, kappa.
 Species Reactivity: Reacts with human and rat. Others not known.
 Positive Control: Stomach, lung, or breast tumor.
 Specificity: This monoclonal antibody reacts with a reduction-resistant epitope present in both free and SIgA bound Secretory Component. It does not react with the cell lines lacking secretory component.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0575-C.1	0.1 ml
RA0575-C.5	0.5 ml
RA0575-C1	1 ml

Sex Hormone Binding Globulin (SHBG); Clone SHBG/245 (Concentrate)

Species: Mouse
 Immunogen: Recombinant full-length human SHBG protein
 Clone: SHBG/245
 Isotype: IgG
 Species Reactivity: Human. Others not known.
 Positive Control: Liver, Placenta, or Testis.
 Specificity: This antibody recognizes a protein of 45kDa, identified as SHBG.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0449-C.1	0.1 ml
RA0449-C.5	0.5 ml
RA0449-C1	1 ml

**Smooth Muscle Myosin Heavy Chain (SM-MHC)
(Leiomyosarcoma & Myoepithelial Cell Marker);
Clone ID8 (Concentrate)**

Species: Mouse
 Immunogen: Human uterus extract
 Clone: ID8
 Isotype: IgG1, kappa
 Species Reactivity: Human, Cow, Pig, Dog, Cat, Rabbit, Rat, Guinea pig and Chicken. Others not known.
 Positive Control: Uterus or normal breast.
 Specificity: This antibody may be useful for the study of breast tumors as the presence of an intact layer of myoepithelial cells is an important feature which may distinguish benign breast lesions and carcinoma in situ from invasive tumors.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0229-C.1	0.1 ml
RA0229-C.5	0.5 ml

**Smooth Muscle Myosin Heavy Chain (SM-MHC)
(Leiomyosarcoma & Myoepithelial Cell Marker);
Clone MYH11/923 (Concentrate)**

Species: Mouse
 Immunogen: Recombinant human MYH11 protein
 Clone: MYH11/923
 Isotype: IgG1, kappa
 Species Reactivity: Human. Predicted to have broad species reactivity.
 Positive Control: Uterus or normal breast.
 Specificity: This antibody may be useful for the study of breast tumors as the presence of an intact layer of myoepithelial cells is an important feature which may distinguish benign breast lesions and carcinoma in situ from invasive tumors.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0230-C.1	0.1 ml
RA0230-C.5	0.5 ml

**Smooth Muscle Myosin Heavy Chain (SM-MHC)
(Leiomyosarcoma & Myoepithelial Cell Marker);
Clone SMMS-1 (Concentrate)**

Species: Mouse
 Immunogen: Human uterus extract
 Clone: SMMS-1
 Isotype: IgG1, kappa
 Species Reactivity: Human, Cow, Pig, Dog, Cat, Rabbit, Rat, Guinea pig and Chicken. Others not known.
 Positive Control: Uterus or normal breast.
 Specificity: This antibody may be useful for the study of breast tumors as the presence of an intact layer of myoepithelial cells is an important feature which may distinguish benign breast lesions and carcinoma in situ from invasive tumors.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0228-C.1	0.1 ml
RA0228-C.5	0.5 ml

**SOX10 (Melanoma Marker); Clone SOX10/991
(Concentrate)**

Species: Mouse
 Immunogen: Recombinant human SOX10 protein fragment (aa115-269) (exact sequence is proprietary).
 Clone: SOX10/991
 Isotype: Mouse / IgG2b, kappa
 Species Reactivity: Reacts with human and mouse. Others not known.
 Positive Control: HepG2 cells. Melanomas, breast carcinomas, gliomas.
 Specificity: Recognizes a protein of ~55kDa, identified as SOX10. This monoclonal antibody is highly specific and does not cross-react with other members of the SOX-family.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0594-C.1	0.1 ml
RA0594-C.5	0.5 ml
RA0594-C1	1 ml

SUMO-1; Clone SM1/495 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human SUMO1 protein
 Clone: SM1/495
 Isotype: IgG1, kappa
 Species Reactivity: Human. Shows broad species reactivity.
 Positive Control: Breast carcinoma.
 Specificity: This antibody is specific to SUMO-1 and shows no cross-reaction with either SUMO-2 or SUMO-3.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0332-C.1	0.1 ml
RA0332-C.5	0.5 ml

SUMO-2/3; Clone SM23/496 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human SUMO2 protein
 Clone: SM23/496
 Isotype: IgG1, kappa
 Species Reactivity: Human. Shows broad species reactivity.
 Positive Control: HeLa cells or breast carcinoma.
 Specificity: This antibody reacts with both SUMO-2 and SUMO-3.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0295-C.1	0.1 ml
RA0295-C.5	0.5 ml

TAG-72 (Tumor-Associated Glycoprotein); Clone B72.3 & CA72/733 (Concentrate)

Species: Mouse
 Immunogen: TAG-72 protein (B72.3 & CA72/733)
 Clone: B72.3 & CA72/733
 Isotype: IgG1, kappa (B72.3 & CA72/733)
 Species Reactivity: Human, Cow, Dog, and Rat. Others not known.
 Positive Control: Jurkat cells, breast or lung carcinoma.
 Specificity: Recognizes an oncofetal antigen of 220kDa, identified as a tumor-associated glycoprotein (TAG-72) with properties of a mucin. This antibody defines the mucin-carried sialylated-Tn epitope. TAG-72 is usually expressed by adenocarcinomas, but is negative in mesotheliomas. Studies have reported that this antibody has 80% sensitivity and 93% specificity for pulmonary adenocarcinoma. Therefore, TAG-72 is a useful marker to distinguish between mesothelioma and adenocarcinoma. However, false positive reactions can occur, so results must be interpreted with the utmost degree of caution.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0370-C.1	0.1 ml
RA0370-C.5	0.5 ml

TAG-72 (Tumor-Associated Glycoprotein); Clone B72.3 & CC49 (Concentrate)

Species: Mouse
 Immunogen: TAG-72 protein (B72.3 & CC49)
 Clone: B72.3 & CC49
 Isotype: IgG1, kappa (B72.3 & CC49)
 Species Reactivity: Human, Cow, Dog, and Rat. Others not known.
 Positive Control: Jurkat cells, breast or lung carcinoma.
 Specificity: Recognizes an oncofetal antigen of 220kDa, identified as a tumor-associated glycoprotein (TAG-72) with properties of a mucin. This antibody defines the mucin-carried sialylated-Tn epitope. TAG-72 is usually expressed by adenocarcinomas, but is negative in mesotheliomas. Studies have reported that this antibody has 80% sensitivity and 93% specificity for pulmonary adenocarcinoma. Therefore, TAG-72 is a useful marker to distinguish between mesothelioma and adenocarcinoma. However, false positive reactions can occur, so results must be interpreted with the utmost degree of caution.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0371-C.1	0.1 ml
RA0371-C.5	0.5 ml

TAG-72 (Tumor-Associated Glycoprotein); Clone B72.3 (Concentrate)

Species: Mouse
 Immunogen: Membrane-enriched fraction of a human breast carcinoma liver metastasis
 Clone: B72.3
 Isotype: IgG1, kappa
 Species Reactivity: Human, Cow, Dog, Hamster, and Rat. Others not known.
 Positive Control: Jurkat cells, breast or lung carcinoma.
 Specificity: Recognizes an oncofetal antigen of 220kDa, identified as a tumor-associated glycoprotein (TAG-72) with properties of a mucin. This antibody defines the mucin-carried sialylated-Tn epitope. TAG-72 is usually expressed by adenocarcinomas, but is negative in mesotheliomas. Studies have reported that this antibody has 80% sensitivity and 93% specificity for pulmonary adenocarcinoma. Therefore, TAG-72 is a useful marker to distinguish between mesothelioma and adenocarcinoma. However, false positive reactions can occur, so results must be interpreted with the utmost degree of caution.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0367-C.1	0.1 ml
RA0367-C.5	0.5 ml

TAG-72 (Tumor-Associated Glycoprotein); Clone CA72/733 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human TAG-72 protein
 Clone: CA72/733
 Isotype: IgG1, kappa
 Species Reactivity: Human, Cow, Dog, and Rat. Others not known.
 Positive Control: Jurkat cells, breast or lung carcinoma.
 Specificity: Recognizes an oncofetal antigen of 220kDa, identified as a tumor-associated glycoprotein (TAG-72) with properties of a mucin. This antibody defines the mucin-carried sialylated-Tn epitope. TAG-72 is usually expressed by adenocarcinomas, but is negative in mesotheliomas. Studies have reported that this antibody has 80% sensitivity and 93% specificity for pulmonary adenocarcinoma. Therefore, TAG-72 is a useful marker to distinguish between mesothelioma and adenocarcinoma. However, false positive reactions can occur, so results must be interpreted with the utmost degree of caution.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0369-C.1	0.1 ml
RA0369-C.5	0.5 ml

TAG-72 (Tumor-Associated Glycoprotein); Clone CC49 (Concentrate)

Species: Mouse
 Immunogen: Purified TAG-72 protein
 Clone: CC49
 Isotype: IgG1, kappa
 Species Reactivity: Human, Cow, Dog, and Rat. Others not known.
 Positive Control: Jurkat cells, breast or lung carcinoma.
 Specificity: Recognizes an oncofetal antigen of 220kDa, identified as a tumor-associated glycoprotein (TAG-72) with properties of a mucin. This antibody defines the mucin-carried sialylated-Tn epitope. TAG-72 is usually expressed by adenocarcinomas, but is negative in mesotheliomas. Studies have reported that this antibody has 80% sensitivity and 93% specificity for pulmonary adenocarcinoma. Therefore, TAG-72 is a useful marker to distinguish between mesothelioma and adenocarcinoma. However, false positive reactions can occur, so results must be interpreted with the utmost degree of caution.
 Status: RUO

Catalog Number	Volume
RA0368-C.1	0.1 ml
RA0368-C.5	0.5 ml

TAG-72 / CA72.4 (Tumor-Associated Glycoprotein); Clone SPM148 (Concentrate)

Species: Mouse.
 Immunogen: Membrane-enriched fraction of a human breast carcinoma liver metastasis.
 Clone: SPM148.
 Isotype: IgG1, kappa.
 Species Reactivity: Reacts with human, cow, dog, hamster, and rat. Others not known.
 Positive Control: Jurkat cells. Breast or lung carcinoma.
 Specificity: Recognizes an oncofetal antigen of 220kDa, identified as a tumor-associated glycoprotein (TAG-72) with properties of a mucin. Studies have reported that this antibody has 80% sensitivity and 93% specificity for pulmonary adenocarcinoma. Therefore, TAG-72 is a useful marker to distinguish between mesothelioma and adenocarcinoma. However, false positive reactions can occur so results must be interpreted with the utmost caution.
 Status: RUO

Catalog Number	Volume
RA0566-C.1	0.1 ml
RA0566-C.5	0.5 ml
RA0566-C1	1 ml

TAG-72 / CA72.4 (Tumor-Associated Glycoprotein); Clone SPM536 (Concentrate)

Species: Mouse.
 Immunogen: Purified TAG-72 protein.
 Clone: SPM536.
 Isotype: IgG1, kappa.
 Species Reactivity: Reacts with human, cow, dog, and rat. Others not known.
 Positive Control: Jurkat cells. Breast or lung carcinoma.
 Specificity: Recognizes an oncofetal antigen of 220kDa, identified as a tumor-associated glycoprotein (TAG-72) with properties of a mucin.
 Status: RUO

Catalog Number	Volume
RA0567-C.1	0.1 ml
RA0567-C.5	0.5 ml
RA0567-C1	1 ml

Tenascin C (Stromal Marker For Epithelial Malignancy); Clone T2H5 (Concentrate)

Species: Mouse
 Immunogen: Human breast carcinoma
 Clone: T2H5
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Extracellular matrix in tonsil and blood vessels. Stroma of many tumors such as breast, squamous cell, and lung carcinomas. Staining of normal fibroblasts serves as internal positive control.
 Specificity: In Western blotting, it reacts with two bands at ~MW of 210kDa and 300kDa, identified as two isoforms of Tenascin C. Specificity of this monoclonal antibody is validated by sequential immunoprecipitation with a polyclonal antibody against Tenascin C.
 Status: RUO

Catalog Number	Volume
RA0135-C.1	0.1 ml
RA0135-C.5	0.5 ml

TGF-alpha (Transforming Growth Factor alpha); Clone 1E8-G6 (Concentrate)

Species: Mouse
 Immunogen: A 10-amino acid synthetic peptide (aa 34-43) from human TGF α .
 Clone: 1E8-G6
 Isotype: IgG1, kappa
 Species Reactivity: Human, Rabbit, and Zebrafish. Others not known.
 Positive Control: Jurkat or Ramos cells. Heart, kidney, pituitary, breast cancer, melanoma.
 Specificity: This antibody reacts with TGF-alpha and shows no cross-reaction with EGF or the neuropeptide synenkephalin. The staining with this antibody is completely blocked by the peptide used for raising the antibody.
 Status: RUO

Catalog Number	Volume
RA0305-C.1	0.1 ml
RA0305-C.5	0.5 ml

TGF-alpha (Transforming Growth Factor alpha); Clone P/T1 (Concentrate)

Species: Mouse
 Immunogen: A 10-amino acid synthetic peptide (aa 34-43) from human TGF α .
 Clone: P/T1
 Isotype: IgG1, kappa
 Species Reactivity: Human, Rabbit, and Zebrafish. Others not known.
 Positive Control: Jurkat or Ramos cells. Heart, kidney, pituitary, breast cancer, melanoma.
 Specificity: This antibody reacts with TGF-alpha and shows no cross-reaction with EGF or the neuropeptide synenkephalin. The staining with this antibody is completely blocked by the peptide used for raising the antibody.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0307-C.1	0.1 ml
RA0307-C.5	0.5 ml

TGF-alpha (Transforming Growth Factor alpha); Clone TG86 & P/T1 (Concentrate)

Species: Mouse
 Immunogen: A 10-amino acid synthetic peptide (aa 34-43) from human TGF α (TG86 & P/T1).
 Clone: TG86 & P/T1
 Isotype: IgG1, kappa (TG86 & P/T1)
 Species Reactivity: Human, Rabbit, and Zebrafish. Others not known.
 Positive Control: Jurkat or Ramos cells. Heart, kidney, pituitary, breast cancer, melanoma.
 Specificity: This antibody reacts with TGF-alpha and shows no cross-reaction with EGF or the neuropeptide synenkephalin. The staining with this antibody is completely blocked by the peptide used for raising the antibody.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0308-C.1	0.1 ml
RA0308-C.5	0.5 ml

TGF-alpha (Transforming Growth Factor alpha); Clone TG86 (Concentrate)

Species: Mouse
 Immunogen: A 10-amino acid synthetic peptide (aa 34-43) from human TGF α .
 Clone: TG86
 Isotype: IgG1, kappa
 Species Reactivity: Human, Rabbit, and Zebrafish. Others not known.
 Positive Control: Jurkat or Ramos cells. Heart, kidney, pituitary, breast cancer, melanoma.
 Specificity: This antibody reacts with TGF-alpha and shows no cross-reaction with EGF or the neuropeptide synenkephalin. The staining with this antibody is completely blocked by the peptide used for raising the antibody.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0306-C.1	0.1 ml
RA0306-C.5	0.5 ml

Thymidine Phosphorylase / PD-ECGF (Angiogenesis Marker); Clone P-GF.44C (Concentrate)

Species: Mouse.
 Immunogen: Recombinant full-length human Thymidine Phosphorylase (TP / PD-ECGF) protein.
 Clone: P-GF.44C.
 Isotype: IgG1.
 Species Reactivity: Reacts with human, mouse, and rat. Others not known.
 Positive Control: HUVEC cells. Breast, bladder, lung or Kaposi Tumors.
 Specificity: Recognizes a protein (amino acid 482) of 55kDa (in vivo 110kDa homodimer), identified as platelet-derived endothelial growth factor (PD-ECGF), same as thymidine phosphorylase (TP) or gliostatin.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0573-C.1	0.1 ml
RA0573-C.5	0.5 ml
RA0573-C1	1 ml

Thymidine Phosphorylase / PD-ECGF (Angiogenesis Marker); Clone SPM322 (Concentrate)

Species: Mouse.
 Immunogen: Recombinant full-length human Thymidine Phosphorylase (TP / PD-ECGF) protein.
 Clone: SPM322.
 Isotype: IgG1.
 Species Reactivity: Reacts with human, mouse, and rat. Others not known.
 Positive Control: HUVEC cells. Breast, bladder, lung, or Kaposi Tumors.
 Specificity: Recognizes a protein of 55kDa (in vivo 110kDa homodimer), identified as platelet-derived endothelial growth factor (PD-ECGF), same as thymidine phosphorylase (TP) or gliostatin.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0574-C.1	0.1 ml
RA0574-C.5	0.5 ml
RA0574-C1	1 ml

Thymidylate Synthase (5-FU Resistance Marker); Clone TMS715 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human thymidylate synthase
 Clone: TMS715
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: 5-FU-resistant colon carcinoma cell lines (NCI H630R10, NCI H630R1), 5-FU-resistant breast cancer cell lines, MCF-Ad5 and MCF-Ad10. Colorectal, gastric, head & neck, and breast carcinomas.
 Specificity: This antibody recognizes a protein of 36kDa, identified as Thymidylate Synthase (TS) (EC 2.1.1.45).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0327-C.1	0.1 ml
RA0327-C.5	0.5 ml

Thymidylate Synthase (5-FU Resistance Marker); Clone TS106 & TMS715 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human thymidylate synthase (TS106 & TMS715)
 Clone: TS106 & TMS715
 Isotype: IgG1, kappa (TS106 & TMS715)
 Species Reactivity: Human. Others not known.
 Positive Control: 5-FU-resistant colon carcinoma cell lines (NCI H630R10, NCI H630R1), 5-FU-resistant breast cancer cell lines, MCF-Ad5 and MCF-Ad10. Colorectal, gastric, head & neck, and breast carcinomas.
 Specificity: This antibody recognizes a protein of 36kDa, identified as Thymidylate Synthase (TS) (EC 2.1.1.45).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0328-C.1	0.1 ml
RA0328-C.5	0.5 ml

Thymidylate Synthase (5-FU Resistance Marker); Clone TS106 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human thymidylate synthase
 Clone: TS106
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: 5-FU-resistant colon carcinoma cell lines (NCI H630R10, NCI H630R1), 5-FU-resistant breast cancer cell lines, MCF-Ad5 and MCF-Ad10. Colorectal, gastric, head & neck, and breast carcinomas.
 Specificity: This antibody recognizes a protein of 36kDa, identified as Thymidylate Synthase (TS) (EC 2.1.1.45).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0326-C.1	0.1 ml
RA0326-C.5	0.5 ml

Thyroglobulin (Thyroidal Cell Marker); Clone 2H11 & 6E1 (Concentrate)

Species: Mouse
 Immunogen: Human thyroid follicular cells (2H11 & 6E1)
 Clone: 2H11 & 6E1
 Isotype: IgG1, kappa (2H11 & 6E1)
 Species Reactivity: Human, Mouse, Rat. Others not known.
 Positive Control: Thyroid
 Specificity: The vast majority of follicular carcinomas of the thyroid will give positive immunoreactivity for anti-thyroglobulin even though sometimes only focally. Poorly differentiated carcinomas of the thyroid are frequently anti-thyroglobulin negative. Adenocarcinomas of an origin other than the thyroid do not react with this antibody.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0303-C.1	0.1 ml
RA0303-C.5	0.5 ml

Thyroglobulin (Thyroidal Cell Marker); Clone 2H11 (Concentrate)

Species: Mouse
 Immunogen: Human thyroid follicular cells
 Clone: 2H11
 Isotype: IgG1, kappa
 Species Reactivity: Human, Mouse, Rat. Others not known.
 Positive Control: Thyroid
 Specificity: The vast majority of follicular carcinomas of the thyroid will give positive immunoreactivity for anti-thyroglobulin even though sometimes only focally. Poorly differentiated carcinomas of the thyroid are frequently anti-thyroglobulin negative. Adenocarcinomas of an origin other than the thyroid do not react with this antibody.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0301-C.1	0.1 ml
RA0301-C.5	0.5 ml

Thyroglobulin (Thyroidal Cell Marker); Clone 6E1 (Concentrate)

Species: Mouse
 Immunogen: Human thyroid follicular cells
 Clone: 6E1
 Isotype: IgG1, kappa
 Species Reactivity: Human, Mouse, Rat. Others not known.
 Positive Control: Thyroid
 Specificity: The vast majority of follicular carcinomas of the thyroid will give positive immunoreactivity for anti-thyroglobulin even though sometimes only focally. Poorly differentiated carcinomas of the thyroid are frequently anti-thyroglobulin negative. Adenocarcinomas of an origin other than the thyroid do not react with this antibody.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0302-C.1	0.1 ml
RA0302-C.5	0.5 ml

Thyroglobulin (Thyroidal Cell Marker); Clone TGB04 & TGB05 (Concentrate)

Species: Mouse
 Immunogen: Human thyroid follicular cells (TGB04 & TGB05)
 Clone: TGB04 & TGB05
 Isotype: IgG1, kappa (TGB04 & TGB05)
 Species Reactivity: Human, Mouse, Rat. Others not known.
 Positive Control: Thyroid
 Specificity: The vast majority of follicular carcinomas of the thyroid will give positive immunoreactivity for anti-thyroglobulin even though sometimes only focally. Poorly differentiated carcinomas of the thyroid are frequently anti-thyroglobulin negative. Adenocarcinomas of an origin other than the thyroid do not react with this antibody.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0304-C.1	0.1 ml
RA0304-C.5	0.5 ml

TIGIT; Clone TG1 (Concentrate)

Species: Mouse
 Immunogen: Recombinant peptide from extracellular domain of human TIGIT.
 Clone: TG1
 Isotype: IgG1, kappa
 Species Reactivity: Human.
 Positive Control: Tonsil
 Specificity: Human TIGIT / T-Cell marker (Immune Checkpoint Protein).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
DIA-TG1	0.5 ml

TNF-alpha (Tumor Necrosis Factor alpha); Clone 4C6-H8 (Concentrate)

Species: Mouse
 Immunogen: A hexadecapeptide corresponding to amino acids 115-130 of human TNF-alpha, conjugated to thyroglobulin.
 Clone: 4C6-H8
 Isotype: IgM, kappa
 Species Reactivity: Human, Mouse, Rat, Rabbit, Cat, Dog, and Zebrafish. Others not known.
 Positive Control: HeLa, HL-60, or A431 cells. Macrophages in lymph node or tonsil.
 Specificity: This antibody reacts with Tumor necrosis factor-alpha. It reacts on paraffin sections with macrophages in which the cytoplasm is stained. Some keratinocytes are also positive (tonsils).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0314-C.1	0.1 ml
RA0314-C.5	0.5 ml

TNF-alpha (Tumor Necrosis Factor alpha); Clone P/T2 (Concentrate)

Species: Mouse
 Immunogen: A hexadecapeptide corresponding to amino acids 115-130 of human TNF-alpha, conjugated to thyroglobulin.
 Clone: P/T2
 Isotype: IgM, kappa
 Species Reactivity: Human, Mouse, Rat, Rabbit, Cat, Dog, and Zebrafish. Others not known.
 Positive Control: HeLa, HL-60, or A431 cells. Macrophages in lymph node or tonsil.
 Specificity: This antibody reacts with Tumor necrosis factor-alpha. It reacts on paraffin sections with macrophages in which the cytoplasm is stained. Some keratinocytes are also positive (tonsils).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0315-C.1	0.1 ml
RA0315-C.5	0.5 ml

TNF-alpha (Tumor Necrosis Factor alpha); Clone TNF706 & P/T2 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human TNF-alpha
 Clone: TNF706 & P/T2
 Isotype: IgM, kappa (TNF706 & P/T2)
 Species Reactivity: Human, Mouse, Rat, Rabbit, Cat, Dog, and Zebrafish. Others not known.
 Positive Control: HeLa, HL-60, or A431 cells. Macrophages in lymph node or tonsil.
 Specificity: This antibody reacts with Tumor necrosis factor-alpha. It reacts on paraffin sections with macrophages in which the cytoplasm is stained. Some keratinocytes are also positive (tonsils).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0317-C.1	0.1 ml
RA0317-C.5	0.5 ml

TNF-alpha (Tumor Necrosis Factor alpha); Clone TNF706 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human TNF-alpha
 Clone: TNF706
 Isotype: IgM, kappa
 Species Reactivity: Human, Mouse, Rat, Rabbit, Cat, Dog, and Zebrafish. Others not known.
 Positive Control: HeLa, HL-60, or A431 cells. Macrophages in lymph node or tonsil.
 Specificity: This antibody reacts with Tumor necrosis factor-alpha. It reacts on paraffin sections with macrophages in which the cytoplasm is stained. Some keratinocytes are also positive (tonsils).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0316-C.1	0.1 ml
RA0316-C.5	0.5 ml

Topoisomerase (DNA) I, Mitochondrial (TOP1MT); Clone TOP1MT/488 (Concentrate)

Species: Mouse.
 Immunogen: Recombinant full-length human TOP1MT protein.
 Clone: TOP1MT/488
 Isotype: IgG2b, kappa
 Species Reactivity: Reacts with human. Others not known.
 Positive Control: A431 cells. Heart, skeletal muscle, brain, or fetal liver.
 Specificity: Recognizes Topoisomerase (DNA) I.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0520-C.1	0.1 ml
RA0520-C.5	0.5 ml
RA0520-C1	1 ml

**TRAcP (Tartrate-Resistant Acid Phosphatase);
Clone ACP5/1070 (Concentrate)**

Species: Mouse
 Immunogen: Recombinant human ACP5 protein
 Clone: ACP5/1070
 Isotype: IgG2b, kappa
 Species Reactivity: Human, Mouse, and Rat. Others not known.
 Positive Control: HepG2, 293T, K562 or RPMI-8226 Cells.
 Spleen from Hairy Cell Leukemia (HCL) patient.
 Specificity: This antibody recognizes a protein of 35kDa, which is identified as tartrate-resistant acid phosphatase (TRAcP). It exists as two isoforms (5a and 5b). This antibody reacts with both the isoforms. The anti-TRAcP antibody labels the cells of Hairy Cell Leukemia (HCL) with a high degree of sensitivity and specificity. Other cells stained with this antibody are tissue macrophages and osteoclasts.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0422-C.5	0.5 ml

**Transgelin (SM22-alpha); Clone TAGLN/247
(Concentrate)**

Species: Mouse
 Immunogen: Recombinant full-length human transgelin (TAGLN) protein.
 Clone: TAGLN/247
 Isotype: IgG1, kappa
 Species Reactivity: Human, Cow, Pig, Rabbit, and Mouse. Others not known.
 Positive Control: U-2 OS, Hs68 or WI 38 cells. Colon carcinoma.
 Specificity: This antibody recognizes a 22kDa protein, identified as Transgelin, also designated SM22-alpha. It may cross-react with SM22-beta.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0451-C.1	0.1 ml
RA0451-C.5	0.5 ml
RA0451-C1	1 ml

**TRIM29 (Lung Squamous Cell Carcinoma Marker);
Clone TRIM29/1041 (Concentrate)**

Species: Mouse
 Immunogen: Recombinant human TRIM29 protein fragment (amino acids approximately 1-150)
 Clone: TRIM29/1041
 Isotype: IgG2a, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: A431 cells. Tonsil or Squamous cell carcinoma.
 Specificity: This antibody recognizes a 66kDa protein, which is identified as Tripartite motif-containing protein 29 (TRIM29).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0454-C.1	0.1 ml
RA0454-C.5	0.5 ml
RA0454-C1	1 ml

**TTF-1 / NKX2.1 (Thyroid & Lung Epithelial Marker);
Clone 8G7G3/1 & NX2.1/690 (Concentrate)**

Species: Mouse
 Immunogen: Recombinant full length Rat TTF-1 protein (8G7G3/1); Recombinant TTF-1 protein (NX2.1/690)
 Clone: 8G7G3/1 & NX2.1/690
 Isotype: IgG1, kappa (8G7G3/1 & NX2.1/690)
 Species Reactivity: Human, Mouse, and Rat. Others not known.
 Positive Control: MAD109, MLE-15, H441-4, or H345 cells.
 Normal thyroid or lung.
 Specificity: Recognizes a protein of 40kDa, identified as thyroid transcription factor 1 (TTF-1).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0313-C.1	0.1 ml
RA0313-C.5	0.5 ml

**TTF-1 / NKX2.1 (Thyroid & Lung Epithelial Marker);
Clone 8G7G3/1 (Concentrate)**

Species: Mouse
 Immunogen: Recombinant full length Rat TTF-1 protein
 Clone: 8G7G3/1
 Isotype: IgG1, kappa
 Species Reactivity: Human, Mouse, and Rat. Shows a broad species reactivity.
 Positive Control: MAD109, MLE-15, H441-4, or H345 cells.
 Normal thyroid or lung.
 Specificity: Recognizes a protein of 40kDa, identified as thyroid transcription factor 1 (TTF-1).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0310-C.1	0.1 ml
RA0310-C.5	0.5 ml

**TTF-1 / NKX2.1 (Thyroid & Lung Epithelial Marker);
Clone NX2.1/690 (Concentrate)**

Species: Mouse
 Immunogen: Recombinant TTF-1 protein
 Clone: NX2.1/690
 Isotype: IgG1, kappa
 Species Reactivity: Human, Mouse, and Rat. Others not known.
 Positive Control: MAD109, MLE-15, H441-4, or H345 cells.
 Normal thyroid or lung.
 Specificity: Recognizes a protein of 40kDa, identified as thyroid transcription factor 1 (TTF-1).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0312-C.1	0.1 ml
RA0312-C.5	0.5 ml

Tubulin-alpha (Microtubule Marker); Clone TU-02 (Concentrate)

Species: Mouse
 Immunogen: Full length native protein corresponding to Pig alpha-tubulin
 Clone: TU-02
 Isotype: IgM, kappa
 Species Reactivity: Human, Pig, Mouse, and Rat. Others not known.
 Positive Control: A431, HeLa or NIH/3T3 cells. Colon tissue.
 Specificity: This antibody recognizes an epitope on the N-terminal structural domain of alpha-tubulin.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0324-C.1	0.1 ml
RA0324-C.5	0.5 ml

Tubulin-alpha (Microtubule Marker); Clone TU-16 (Concentrate)

Species: Mouse
 Immunogen: Full length native protein corresponding to Pig alpha-tubulin.
 Clone: TU-16
 Isotype: IgM, kappa
 Species Reactivity: Human, Pig, Cow, Mouse, Rat, Hamster, Chicken, and many others.
 Positive Control: A431, HeLa, Raji, or NIH/3T3 cells. Colon tissue.
 Specificity: This antibody recognizes an epitope of alpha-tubulin.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0325-C.1	0.1 ml
RA0325-C.5	0.5 ml

Tumor Endothelial Marker 8 (TEM8) / Anthrax Toxin Receptor 1; Clone TEM8/589 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human TEM8 protein
 Clone: TEM8/589
 Isotype: IgG1, kappa
 Species Reactivity: Human, Non-human Primates, Dog, and Rabbit. Others not known.
 Positive Control: P23 cells. Colon or breast carcinoma.
 Specificity: This antibody recognizes a protein of ~63kDa, identified as Tumor Endothelial Marker 8 (TEM8).
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0365-C.1	0.1 ml
RA0365-C.5	0.5 ml

Tyrosinase (Melanoma Marker); Clone OCA1/812 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human tyrosinase protein
 Clone: OCA1/812
 Isotype: IgG2a, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: SK-MEL-13, SK-MEL-19, SK-MEL-30, SK-MEL-37 cells or Melanoma.
 Specificity: Recognizes a cluster of proteins between 70-80kDa, identified as tyrosinase. Occasionally, a minor band at 55kDa is also detected. This antibody shows no cross-reaction with MAGE-1 and tyrosinase-related protein 1, TRP-1/gp75.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0330-C.1	0.1 ml
RA0330-C.5	0.5 ml

Tyrosinase (Melanoma Marker); Clone T311 & OCA1/812 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human tyrosinase protein (T311 & OCA1/812)
 Clone: T311 & OCA1/812
 Isotype: IgG2a, kappa (T311 & OCA1/812)
 Species Reactivity: Human. Others not known.
 Positive Control: SK-MEL-13, SK-MEL-19, SK-MEL-30, SK-MEL-37 cells or Melanoma.
 Specificity: Recognizes a cluster of proteins between 70-80kDa, identified as tyrosinase. Occasionally, a minor band at 55kDa is also detected. This antibody shows no cross-reaction with MAGE-1 and tyrosinase-related protein 1, TRP-1/gp75.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0331-C.1	0.1 ml
RA0331-C.5	0.5 ml

Tyrosinase (Melanoma Marker); Clone T311 (Concentrate)

Species: Mouse
 Immunogen: Recombinant tyrosinase protein
 Clone: T311
 Isotype: IgG2a, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: SK-MEL-13, SK-MEL-19, SK-MEL-30, SK-MEL-37 cells or Melanoma.
 Specificity: Recognizes a cluster of proteins between 70-80kDa, identified as tyrosinase. Occasionally, a minor band at 55kDa is also detected. This antibody shows no cross-reaction with MAGE-1 and tyrosinase-related protein 1, TRP-1/gp75.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0329-C.1	0.1 ml
RA0329-C.5	0.5 ml

Vimentin (Mesenchymal Cell Marker); Clone V9 (Concentrate)

Species: Mouse
 Immunogen: Porcine eye lens
 Clone: V9
 Isotype: IgG1, kappa
 Species Reactivity: Reacts with Human, Rat, Horse, Chicken, Cow, Cat, Dog, and Pig. Does not react with Mouse.
 Positive Control: U-87, Raji, Jurkat or HeLa cells. Lymph node or tonsil.
 Specificity: This antibody reacts with a 58kDa protein identified as vimentin. It shows no cross-reactivity with other closely related intermediate filament proteins such as desmin, keratin, neurofilament, and glial fibrillary acid protein.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0589-C.1	0.1 ml
RA0589-C.5	0.5 ml
RA0589-C1	1 ml

Vimentin (Mesenchymal Cell Marker); Clone VM452 (Concentrate)

Species: Mouse
 Immunogen: Human vimentin recombinant protein
 Clone: VM452
 Isotype: IgG1
 Species Reactivity: Human, Cow, Dog, Cat, Pig, Goat and Chicken. Does not react with Mouse and Rat. Others not known.
 Positive Control: Jurkat cells, Sarcomas, Melanomas.
 Specificity: This antibody reacts with a 58kDa protein identified as vimentin. It shows no cross-reaction with other closely related intermediate filament proteins (IFP's) such as desmin, keratin, neurofilament, and glial fibrillary acid protein.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0337-C.1	0.1 ml
RA0337-C.5	0.5 ml

von Willebrand Factor / Factor VIII Related-Ag (Endothelial Marker); Clone 3E2D10 & VWF635 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human vWF fragment (3E2D10 & VWF635).
 Clone: 3E2D10 & VWF635
 Isotype: IgG1, kappa (3E2D10 & VWF635)
 Species Reactivity: Human. Others not known.
 Positive Control: HUVEC or Tonsil.
 Specificity: This antibody helps to establish the endothelial nature of some lesions of disputed histogenesis, e.g. Kaposi's sarcoma and cardiac myxoma. It is widely used for differentiating vascular lesions from those of other tissue differentiation within a panel of other vascular markers, although not all tumors of endothelial differentiation contain this antigen.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0341-C.1	0.1 ml
RA0341-C.5	0.5 ml

von Willebrand Factor / Factor VIII Related-Ag (Endothelial Marker); Clone 3E2D10 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human vWF fragment spanning aa 845-949.
 Clone: 3E2D10
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: HUVEC or Tonsil.
 Specificity: This antibody helps to establish the endothelial nature of some lesions of disputed histogenesis, e.g. Kaposi's sarcoma and cardiac myxoma. It is widely used for differentiating vascular lesions from those of other tissue differentiation within a panel of other vascular markers, although not all tumors of endothelial differentiation contain this antigen.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0339-C.1	0.1 ml
RA0339-C.5	0.5 ml

von Willebrand Factor / Factor VIII Related-Ag (Endothelial Marker); Clone IIIE2.34 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human vWF fragment spanning aa 845-949
 Clone: IIIE2.34
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: HUVEC or Tonsil.
 Specificity: This antibody helps to establish the endothelial nature of some lesions of disputed histogenesis, e.g. Kaposi's sarcoma and cardiac myxoma. It is widely used for differentiating vascular lesions from those of other tissue differentiation within a panel of other vascular markers, although not all tumors of endothelial differentiation contain this antigen.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0342-C.1	0.1 ml
RA0342-C.5	0.5 ml

von Willebrand Factor / Factor VIII Related-Ag (Endothelial Marker); Clone VWF635 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human vWF fragment.
 Clone: VWF635
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: HUVEC or Tonsil.
 Specificity: This antibody helps to establish the endothelial nature of some lesions of disputed histogenesis, e.g. Kaposi's sarcoma and cardiac myxoma. It is widely used for differentiating vascular lesions from those of other tissue differentiation within a panel of other vascular markers, although not all tumors of endothelial differentiation contain this antigen.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0340-C.1	0.1 ml
RA0340-C.5	0.5 ml

Wilm's Tumor 1 (WT1) (Wilm's Tumor & Mesothelial Marker); Clone 6F-H2 (Concentrate)

Species: Mouse
 Immunogen: Recombinant protein corresponding to residues 1-181 of human WT1.
 Clone: 6F-H2
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: K562 cells, Wilm's Tumor, or fetal kidney.
 Specificity: Recognizes a 47-55kDa tumor suppressor protein, identified as Wilm's Tumor (WT1) protein. This antibody reacts with all isoforms of the full-length WT1 and also identifies WT1 lacking exon 2-encoded amino acids, frequently found in subsets of sporadic Wilm's tumors.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0343-C.1	0.1 ml
RA0343-C.5	0.5 ml

Wilm's Tumor 1 (WT1) (Wilm's Tumor & Mesothelial Marker); Clone WMT/857 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human WT1 protein
 Clone: WMT/857
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: K562 cells, Wilm's Tumor, or fetal kidney.
 Specificity: Recognizes a 47-55kDa tumor suppressor protein, identified as Wilm's Tumor (WT1) protein. This antibody reacts with all isoforms of the full-length WT1 and also identifies WT1 lacking exon 2-encoded amino acids, frequently found in subsets of sporadic Wilm's tumors.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0344-C.1	0.1 ml
RA0344-C.5	0.5 ml

ZAP-70 (Chronic Lymphocytic Leukemia Marker); Clone ZAP70/528 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human ZAP-70 protein
 Clone: ZAP70/528
 Isotype: IgG2a, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Jurkat cells. Tonsil or lymph node.
 Specificity: This antibody recognizes a 70kDa protein identified as ZAP-70.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0453-C.1	0.1 ml
RA0453-C.5	0.5 ml
RA0453-C1	1 ml

ZAP-70 [Zeta-chain (TCR) Associated Protein Kinase 70kDa]; Clone 2F3.2 (Concentrate)

Species: Mouse
 Immunogen: Recombinant ZAP-70 protein including residues 1-254 and encompassing the SH2 domains of human ZAP-70.
 Clone: 2F3.2
 Isotype: IgG2a, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Jurkat cells. Tonsil or lymph node.
 Specificity: Recognizes human ZAP-70; does not recognize murine ZAP-70.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0345-C.1	0.1 ml
RA0345-C.5	0.5 ml

Polyclonal Concentrate**AMACR / p504S (Prostate Cancer Marker); Rabbit Polyclonal (Concentrate)**

Species: Rabbit
 Immunogen: A synthetic peptide from human AMACR protein
 Clone: Rabbit Polyclonal
 Isotype: IgG
 Species Reactivity: Human. Others not known.
 Positive Control: HEK cells or Prostate Adenocarcinoma.
 Specificity: This antibody recognizes a protein of 54kDa, which is identified as AMACR, also known as p504S.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0354-C.1	0.1 ml
RA0354-C.5	0.5 ml

beta-Catenin (p120); Rabbit Polyclonal (Concentrate)

Species: Rabbit
 Immunogen: A synthetic peptide from the middle of beta-Catenin (p120) protein
 Clone: Polyclonal
 Isotype: IgG
 Species Reactivity: Human and Mouse. Others not known.
 Positive Control: HeLa or MCF-7 cells. Breast carcinoma.
 Specificity: Immuno-staining of beta-catenin and E-cadherin is helpful in the accurate identification of ductal and lobular neoplasms, including a distinction between low-grade ductal carcinoma in situ (DCIS) and lobular carcinoma. Additionally, some rectal and gastric adenocarcinomas demonstrate diffuse cytoplasmic beta-catenin staining and a lack of membranous staining, mimicking the staining pattern observed with lobular breast carcinomas.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0104-C.1	0.1 ml
RA0104-C.5	0.5 ml

CD8A (Cytotoxic & Suppressor T-Cell Marker); Rabbit Polyclonal (Concentrate)

Species: Rabbit
 Immunogen: Human CD8 recombinant fragment corresponding to aa 200-250
 Clone: Polyclonal
 Isotype: IgG
 Species Reactivity: Human. Others not known.
 Positive Control: HuT78 or hPBL. Tonsil.
 Specificity: CD8 is a 68 kDa transmembrane glycoprotein expressed as a heterodimer by a majority of thymocytes, and by major histocompatibility complex (MHC) class I restricted, mature, suppressor/cytotoxic T-cells.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0044-C.1	0.1 ml
RA0044-C.5	0.5 ml

Chromogranin A / CHGA (Neuroendocrine Marker); Polyclonal (Concentrate)

Species: Rabbit.
 Immunogen: Recombinant human full-length Chromogranin A protein.
 Clone: Polyclonal.
 Isotype: IgG, kappa
 Species Reactivity: Human. Does not react with rat. Others not known.
 Positive Control: PC12 cells. Adrenal gland, bowel, parathyroid, pancreas, or pheochromocytoma.
 Specificity: Recognizes the Chromogranin A protein.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0518-C.1	0.1 ml
RA0518-C.5	0.5 ml
RA0518-C1	1 ml

Helicobacter Pylori; Rabbit Polyclonal (Concentrate)

Species: Rabbit
 Immunogen: Total sonicate of Helicobacter pylori
 Clone: Rabbit Polyclonal
 Isotype: IgG
 Species Reactivity: Helicobacter pylori
 Positive Control: Helicobacter pylori infected stomach biopsy.
 Specificity: This antibody stains the individual H. pylori bacterium when it presents on the surface of the epithelium or in the cytoplasm of the epithelial cells in biopsy tissue sections from the antrum and body of the stomach.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0379-C.1	0.1 ml
RA0379-C.5	0.5 ml

Napsin A (Lung Adenocarcinoma Marker); Rabbit Polyclonal (Concentrate)

Species: Rabbit
 Immunogen: A synthetic peptide (RFDPKASSSFQANGTKFAIQYGT) of human Napsin-A.
 Clone: Rabbit Polyclonal
 Isotype: IgG
 Species Reactivity: Human. Others not known.
 Positive Control: Lung adenocarcinoma.
 Specificity: Immunohistochemical studies revealed high expression levels of napsin A in human lung and kidney, but low expression in spleen. Napsin A is expressed in type II pneumocytes and in adenocarcinomas of lung.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0348-C.1	0.1 ml
RA0348-C.5	0.5 ml

p40 (deltaNp63) (Squamous, Basal, or Myoepithelial Cell Marker); Rabbit Polyclonal (Concentrate)

Species: Rabbit
 Immunogen: A synthetic peptide (ENNAQTQFSEPPQY) corresponding to aa 5-17 of human p40
 Clone: Rabbit Polyclonal
 Isotype: IgG
 Species Reactivity: Human, Mouse, Rat, and Cow. Others not known.
 Positive Control: HEK293 cells, Prostate Carcinoma, or Lung Squamous Cell Carcinoma.
 Specificity: p40 (p63 delta) is a marker recently determined to be highly specific for squamous basal cells in the immunohistochemistry (IHC) application.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0346-C.1	0.1 ml
RA0346-C.5	0.5 ml

TIMP-3 (Tissue Inhibitor of Metalloproteinase-3); Rabbit Polyclonal (Concentrate)

Species: Rabbit
 Immunogen: Recombinant fragment corresponding to Human TIMP3 aa 175-211
 Clone: Rabbit polyclonal
 Isotype: IgG
 Species Reactivity: Human, Mouse, Rat, Horse, Cow, and Dog. Others not known.
 Positive Control: Placenta or breast carcinoma.
 Specificity: The amino acid sequence (aa 175-211) used as the immunogen for anti-TIMP3 is 100% homologous in human, cow, dog and horse, and 94% homologous in mouse and rat.
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0309-C.1	0.1 ml
RA0309-C.5	0.5 ml

Monoclonal Ready-to-Use

Actin, Alpha-Smooth Muscle; Clone 1A4 (Ready-To-Use)

Species: Mouse Monoclonal
 Clone: 1A4
 Isotype: IgG2a,k
 Species Reactivity: Human, Baboon, Cow, Rabbit, Mouse, Rat, Chicken.
 Positive Control: Blood vessels

Specificity: This antibody recognizes the α -smooth muscle form of actin. It shows no cross reaction with actin from fibroblasts (b- and g-cytoplasmic), striated muscle (α -sarcometric), and myocardium (α -myocardial). Its epitope is composed of the acetyl group and the first 4 amino acids on the N-terminal end of the peptidic chain of α -smooth actin. ScyTek's 1A4 stains smooth muscle cells in vessel walls, gut wall, and myometrium. Myoepithelial cells in breast and salivary gland are also stained as they also contain this actin.

Catalog Number	Volume
A00002-0002	2 ml
A00002-0007	7 ml
A00002-0025	25 ml

Actin, Muscle Specific; Clone HHF35 (Ready-To-Use)

Species: Mouse
 Immunogen: SDS extract of human myocardium.
 Clone: HHF35
 Isotype: IgG1, Kappa
 Species Reactivity: Human, Rabbit, Cat, Dog, Mouse, Rat, Chicken. Others-not known
 Positive Control: Muscle or sarcoma

Specificity: This antibody reacts with actin of skeletal, cardiac, and smooth muscle cells. It is not reactive with other mesenchymal cells except for myoepithelium. This antibody recognizes alpha and gamma isotypes of all muscle groups. Non-muscle cells such as vascular endothelial cells and connective tissues are non-reactive. Also, neoplastic cells of non-muscle-derived tissue such as carcinomas, melanomas, and lymphomas are negative. In addition, it stains tumors of smooth muscle (leiomyomas and leiomyosarcomas) as well as skeletal muscle (rhabdomyomas and rhabdomyosarcomas).

Catalog Number	Volume
A00001-0002	2 ml
A00001-0007	7 ml
A00001-0025	25 ml

Bcl-2; Clone 100/D5 (Ready-To-Use)

Species: Mouse
 Clone: 100/D5
 Isotype: Mouse IgG1, Kappa
 Species Reactivity: Human, Monkey. Others not tested.
 Positive Control: Tonsil.
 Cellular Localization: Cytoplasmic & Cell Membrane.
 Specificity: Human Bcl-2 alpha is a 239 amino acid (aa) protein and human Bcl-2 beta is a 205 aa protein. The 100/D5 antibody [also known as clone Bcl-2/100 (Kren, 2004, Kaur, 2004)] recognizes both Bcl-2 isoforms (Pezzela et al, 1990).

Catalog Number	Volume
A00119-0002	2 ml
A00119-0007	7 ml
A00119-0025	25 ml

Bcl-2; Clone 124 (Ready-To-Use)

Species: Mouse
 Immunogen: A synthetic peptide, aa41-54 (GAAPAPGIFSSQPG-Cys) of human Bcl-2 protein
 Clone: 124
 Isotype: IgG1, kappa
 Species Reactivity: Human. Does not react with Mouse and Rat. Others not known.
 Positive Control: Jurkat, K562, HL-60, or HeLa Cells. Tonsil or follicular lymphomas.
 Specificity: This antibody recognizes a protein of 25-26kDa, identified as the Bcl-2 alpha oncoprotein. It shows no cross-reaction with Bcl-x or Bax protein.

Catalog Number	Volume
A00004-0002	2 ml
A00004-0007	7 ml
A00004-0025	25 ml

Bcl-6; Clone BCL6/2497R (Ready-To-Use)

Species: Rabbit
 Immunogen: Recombinant human bcl-6 protein fragment (aa256-389) (exact sequence is proprietary).
 Clone: BCL6/2497R
 Isotype: IgG
 Species Reactivity: Human, Others-not known
 Positive Control: Raji or Ramos cells. Tonsil
 Cellular Localization: Nuclear
 Specificity: This antibody reacts with a protein of 95kDa, which is identified as Bcl-6.

Catalog Number	Volume
A00164-0002	2 ml
A00164-0007	7 ml
A00164-0025	25 ml

CA15-3; Clone GP1.4 (Ready-To-Use)

Species: Mouse Monoclonal
 Isotype: IgG1
 Species Reactivity: Human
 Positive Control: Human Breast

Specificity: Human Breast Tumor Antigen (CA15-3). No cross-reactivity with Human AFP, CEA, PAP, PSA, CA19-9, or CA125.

Catalog Number	Volume
A00078-0002	2 ml
A00078-0007	7 ml
A00078-0025	25 ml

CA19-9; Clone 121SLE (Ready-To-Use)

Species: Mouse
 Clone: 121SLE
 Isotype: IgM, Kappa
 Species Reactivity: Human
 Cellular Localization: Luminal surface and cytoplasm.
 Specificity: CA19-9, a carbohydrate epitope expressed on a high MW (>400kDa) mucin glycoprotein, is a sialyl Lewisia structure which is synthesized from type 1 blood group precursor chains and is present in individuals expressing the Lewisia and/or Lewisb blood group antigens. In normal tissues, sialyl Lewisia antigen is present in ductal epithelium of the breast, kidney, salivary gland, and sweat glands. Its expression is greatly enhanced in serum as well as in the majority of tumor cells in gastrointestinal (GI) carcinomas, including adenocarcinomas of the stomach, intestine, and pancreas. Preoperative elevated CA19-9 levels in patients with stage I pancreatic carcinoma decrease to normal values following surgery. When used serially, CA19-9 can predict recurrence of disease prior to radiographic or clinical findings.

<u>Catalog Number</u>	<u>Volume</u>
A00107-0002	2 ml
A00107-0007	7 ml
A00107-0025	25 ml

Carcinoembryonic Antigen, Pan (CEA); Clone COL-1 (Ready-To-Use)

Species: Mouse
 Immunogen: BALB/c mice were injected with an extract of human colon carcinoma.
 Clone: COL-1
 Isotype: IgG1 Kappa
 Species Reactivity: Human. Others not tested.
 Positive Control: Colon Adenocarcinoma.
 Specificity: This antibody labels the CEA-positive glycocalyx surface of gastrointestinal cells and is useful for the identification of colon carcinomas.

<u>Catalog Number</u>	<u>Volume</u>
A00135-0002	2 ml
A00135-0007	7 ml
A00135-0025	25 ml

CD10, CALLA (Neutral Endopeptidase); Clone 56C6 (Ready-To-Use)

Species: Mouse
 Immunogen: Recombinant human CD10 protein fragment.
 Clone: 56C6
 Isotype: IgG1, kappa
 Species Reactivity: Human, Rat. Others not tested.
 Positive Control: Kidney, small intestine, or tonsil.
 Specificity: Recognizes a 100kDa glycoprotein, identified as CD10, also known as Common Acute Lymphatic Leukemia Antigen (CALLA).

<u>Catalog Number</u>	<u>Volume</u>
A00091-0002	2 ml
A00091-0007	7 ml
A00091-0025	25 ml

CD15 / FUT4; Clone Leu-M1 (Ready-To-Use)

Species: Mouse
 Immunogen: U937 histiocytic cell line
 Clone: Leu-M1
 Isotype: IgM, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: U937 cells, Reed-Sternberg's cells in Hodgkin's lymphoma.
 Specificity: This antibody reacts with a 220 kDa protein, CD15 / FUT4 expressed on Reed-Sternberg cells.

<u>Catalog Number</u>	<u>Volume</u>
A00151-0002	2 ml
A00151-0007	7 ml
A00151-0025	25 ml

CD20, B-Cell; Clone L26 (Ready-To-Use)

Species: Mouse Monoclonal
 Clone: L26
 Isotype: IgG2a,k
 MW: 33 kD and 30 kD
 Species Reactivity: Human
 Positive Control: Tonsil

Specificity: This antibody is specific to a 33 kD polypeptide present on the majority of B cells in peripheral blood and lymphoid tissue and also with a minor component of 30 kD. No reactivity with other haematopoietic cells has been observed.

<u>Catalog Number</u>	<u>Volume</u>
A00003-0002	2 ml
A00003-0007	7 ml
A00003-0025	25 ml

CD23, B-Cell; Clone MHM6

Species: Mouse
 Clone: MHM6
 Isotype: IgG1, Kappa

Specificity: In lymphoid tissue, the antibody labels a variable proportion of mantle zone lymphocytes and a fraction of dendritic reticulum cells. In lymph nodes with progressive germinal centre transformation, the number and staining intensity of small follicular lymphocytes are increased. Essentially no staining is seen on splenic marginal zone lymphocytes.

The CD23 antigen is expressed on neoplastic cells from cases of B-Cell chronic lymphocytic leukemia and some cases of centroblastic/centrocytic lymphoma, but not in other types of lymphoid neoplasms.

<u>Catalog Number</u>	<u>Volume</u>
A20081	2 ml
A00081	6 ml
A00081.0025	25 ml

CD30, Ki-1 Antigen; Clone Ber-H2 (Ready-To-Use)

Species: Mouse
 Immunogen: Cancer cell line established from a patient with Hodgkin's disease of T-cell lineage
 Clone: Ber-H2
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Hodgkin's lymphoma
 Specificity: Recognizes a single chain glycoprotein of 105/120kDa, identified as CD30/Ki-1. This Mab distinguishes large cell lymphomas derived from activated lymphoid cells from histiocytic malignancies and lymphomas derived from resting and precursor lymphoid cells or from anaplastic carcinomas. umor cells of a majority of anaplastic large cell lymphomas, and by a varying proportion of activated T and B cells.

<u>Catalog Number</u>	<u>Volume</u>
A00016-0002	2 ml
A00016-0007	7 ml
A00016-0025	25 ml

CD31, Endothelial Cell; Clone JC/70A (Ready-To-Use)

Species: Mouse
 Immunogen: Membrane preparation of a spleen from a patient with hairy cell leukemia.
 Clone: JC/70A
 Isotype: IgG1, kappa
 Species Reactivity: Human, Cynomolgus Monkey, and Rabbit. Others not known.
 Positive Control: Tonsil, Angiosarcoma.
 Specificity: Anti-CD31 has shown to be highly specific and sensitive for vascular endothelial cells. Staining of nonvascular tumors (excluding hematopoietic neoplasms) is rare. Anti-CD31 reacts with normal, benign, and malignant endothelial cells which make up blood vessel lining.

<u>Catalog Number</u>	<u>Volume</u>
A00009-0002	2 ml
A00009-0007	7 ml
A00009-0025	25 ml

CD31; Clone C31.3 (Ready-To-Use)

Species: Mouse
 Clone: C31.3
 Isotype: Mouse IgG1, Kappa
 Species Reactivity: Human.
 Positive Control: Tonsil, Liver, Kidney.
 Specificity: The CD31 antibody (clone C31.3 or PECAM-1) is widely used as a pan-endothelial cell marker to demonstrate the presence of endothelial cells in tissue sections by immunohistochemistry. The CD31 (PECAM-1) antibody reacts with normal, benign, and malignant endothelium.

<u>Catalog Number</u>	<u>Volume</u>
A00126-0002	2 ml
A00126-0007	7 ml
A00126-0025	25 ml

CD31; Clone C31.7 (Ready-To-Use)

Species: Mouse
 Clone: C31.7
 Isotype: IgG1, Kappa
 Species Reactivity: Human.
 Cellular Localization: Primarily membrane.
 Specificity: This antibody recognizes a 100kDa glycoprotein in endothelial cells and 130kDa in platelets. This antibody reacts with endothelial cells in normal tissues and in benign and malignant proliferations. In cryostat sections and blood smears the antibody also stains megakaryocytes, platelets and occasionally plasma cells. It reacts weakly with mantle zone B cells, peripheral T cells, and neutrophils. Antibody to CD31 is of value in the study of benign and malignant vascular tumors. Staining for CD31 has also been used to measure angiogenesis, which reportedly predicts tumor recurrence.

<u>Catalog Number</u>	<u>Volume</u>
A00110-0002	2 ml
A00110-0007	7 ml
A00110-0025	25 ml

CD34, Endothelial Cell; Clone QBEnd/10 (Ready-To-Use)

Species: Mouse
 Immunogen: Detergent solubilized vesicular suspension prepared from human term placenta
 Clone: QBEnd/10
 Isotype: IgG1, kappa
 Species Reactivity: Human, Cynomolgus Monkey, Rhesus Monkey. Does not react with rat, sheep, cow and dog. Others not known.
 Positive Control: KG-1 cells, Tonsil, or Angiosarcoma
 Specificity: This antibody recognizes a single chain, transmembrane, heavily glycosylated protein of 90-120kDa, which is identified as CD34. On the basis of differential sensitivity to degradation by specific enzymes, epitopes of monoclonal antibodies to CD34 are classified into three main categories, class I, class II and class III. It is a class II antibody whose epitope is resistant to neuraminidase but sensitive to glycoprotease and chymopapain. Anti-CD34 labels > 85% of angiosarcoma and Kaposi's sarcoma, but with a lower specificity.

<u>Catalog Number</u>	<u>Volume</u>
A00070-0002	2 ml
A00070-0007	7 ml
A00070-0025	25 ml

CD43 (T-Cell); Clone DF-T1 (Ready-To-Use)

Species: Mouse
 Immunogen: Myeloblastic KG1 cells
 Clone: DF-T1
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Paracortex in a tonsil or a reactive lymph node.
 Specificity: This antibody recognizes a cell surface glycoprotein of 95/115/135kDa (depending upon the extent of glycosylation), identified as CD43 [Workshop IV].

<u>Catalog Number</u>	<u>Volume</u>
A00082-0002	2 ml
A00082-0007	7 ml
A00082-0025	25 ml

CD45, Leucocyte Common Antigen (LCA); Clones PD7/26 & 2B11 (Ready-To-Use)

Species: Mouse

Immunogen: Isolated neoplastic cells from T-cell lymphoma (2B11); human peripheral blood lymphocytes maintained in T-cell growth factor (PD7/26).

Clone: 2B11 & PD7/26

Isotype: IgG1, kappa (2B11); IgG1, kappa (PD7/26).

Species Reactivity: Human. Others not known.

Positive Control: Ramos, U-698, or GA-10 cells. Tonsil.

Specificity: This antibody recognizes the CD45 leukocyte common antigen (LCA) family.

<u>Catalog Number</u>	<u>Volume</u>
A00017-0002	2 ml
A00017-0007	7 ml
A00017-0025	25 ml

CD45; Clone 2B11 (Ready-To-Use)

Species: Mouse

Clone: 2B11

Isotype: Mouse IgG1, Kappa

Species Reactivity: Human.

Positive Control: Tonsil.

Specificity: This antibody is specific for hematopoietic cells, including basophils, granulocytes, lymphocytes, macrophages / histiocytes, mast cells, monocytes, plasma cells; NOT mature red blood cells and their immediate progenitors, platelets or megakaryocytes, Dendritic cells, medullary thymocytes.

<u>Catalog Number</u>	<u>Volume</u>
A00129-0002	2 ml
A00129-0007	7 ml
A00129-0025	25 ml

CD45RA (LCA); Clone 158-4D3 (Ready-To-Use)

Species: Mouse

Clone: 158-4D3

Isotype: Mouse IgG2a, Kappa

Species Reactivity: Human. Others not tested.

Positive Control: Tonsil, Spleen.

Specificity: The CD45RA 158-4D3 antibody clone reacts with the ABC and BC isoforms (Schlossman et al, 1995). CD45RA has a molecular weight of 205-220 kDa.

<u>Catalog Number</u>	<u>Volume</u>
A00123-0002	2 ml
A00123-0007	7 ml
A00123-0025	25 ml

CD45RB; Clone PD7/26 (Ready-To-Use)

Species: Mouse

Clone: PD7/26

Isotype: Mouse IgG1

Species Reactivity: Human.

Positive Control: Tonsil.

Specificity: This antibody is specific for hematopoietic cells, including basophils, granulocytes, lymphocytes, macrophages/histiocytes, mast cells, monocytes, plasma cells; NOT mature red blood cells and their immediate progenitors, platelets or megakaryocytes, dendritic cells, medullary thymocytes. CD45RB is highly expressed on memory B cells and plasmablasts but not on naïve B cells, Langerhans cells and some T cells, B cells, monocytes, macrophages, granulocytes.

<u>Catalog Number</u>	<u>Volume</u>
A00130-0002	2 ml
A00130-0007	7 ml
A00130-0025	25 ml

CD45RO, T-Cell; Clone UCHL1 (Ready-To-Use)

Species: Mouse Monoclonal

Clone: UCHL1

Isotype: IgG2a,k

Species Reactivity: Human, Rhesus Monkey. Does not react with Rat.

Positive Control: Tonsil or Lymph Node.

Specificity: This antibody reacts with a 180 kD glycoprotein of CD45 family, occurring on most thymocytes and activated T cells but only on the portion of the resting T cells. It reacts with most thymocytes, a subpopulation of resting cells within both the CD4 and CD8 subsets and mature activated T cells. This antibody shows no reactivity with normal B or natural killer cells, but reacts with granulocytes and monocytes. Though this antibody is useful to identify T-cell lymphomas and leukemia, rare staining with B cell lymphomas reported.

<u>Catalog Number</u>	<u>Volume</u>
A00024-0002	2 ml
A00024-0007	7 ml
A00024-0025	25 ml

CD5 (Mantel Cell Lymphoma Marker); 4C7

Species: Mouse Monoclonal

Clone: 4C7

Isotype: IgG1

Species Reactivity: Human

Specificity: This antibody recognizes a 67kD transmembrane protein, which is identified as CD5. The CD5 antigen is found on 95% of thymocytes and 72% of peripheral blood lymphocytes. In lymph nodes, the main reactivity is observed in T cells. CD5 is expressed by many T cell leukemia, lymphomas, and activated T cells. Occasionally, CD5 antigen is also expressed on a subset of B cells. Mantle cell lymphomas (same as diffuse centrocytic lymphomas) are CD5+ while the follicle center cell lymphoma are CD5-.

<u>Catalog Number</u>	<u>Volume</u>
A20090	2 ml
A00090	6 ml
A00090.0025	25 ml
A00090.050	50 ml

CD56; Clone 123C3.D5 (Ready-To-Use)

Species: Mouse
 Clone: 123C3
 Isotype: Mouse IgG1, Kappa
 Species Reactivity: Human.
 Positive Control: Tonsil, Neuroblastoma, Pancreatic Islet cells.
 Specificity: This antibody recognizes two proteins (185kDa & 145kDa), identified as two isoforms of neural cell adhesion molecule (NCAM/CD56). It is used as a tumor marker in various cancers such as NK lymphomas and Merkel cell carcinoma. NCAM is expressed on most neuroectodermal derived lines, tissues, and neoplasms such as retinoblastoma, medulloblastoma, astrocytoma, and neuroblastoma. It is also expressed on some mesodermally derived tumors such as rhabdomyosarcoma and also on natural killer cells.

<u>Catalog Number</u>	<u>Volume</u>
A00121-0002	2 ml
A00121-0007	7 ml
A00121-0025	25 ml

CD57 (HNK-1); Clone NK-1 (Ready-To-Use)

Species: Mouse
 Clone: NK-1
 Isotype: Mouse IgM, Kappa
 Species Reactivity: Human.
 Positive Control: Tonsil, spleen, lymph node.
 Specificity: The NK1 antibody clone recognizes the glycoepitope referred to as both CD57 and HNK1.

<u>Catalog Number</u>	<u>Volume</u>
A00117-0002	2 ml
A00117-0007	7 ml
A00117-0025	25 ml

CD74; Clone LN2 (Ready-To-Use)

Species: Mouse
 Clone: LN2
 Isotype: IgG1,k
 MW: 35 kD
 Species Reactivity: Human

Specificity: This antibody reacts with 35 kD antigen present on the nuclear membrane protein related to the invariant chain of the HLA-Dr antigen. This antibody reacts with the germinal center and mantle zone B lymphocytes, interdigitating histiocytes in T cell zones and mononuclear cells and Reed-Sternberg cells in Hodgkin's disease.

<u>Catalog Number</u>	<u>Volume</u>
A00048-0002	2 ml
A00048-0007	7 ml
A00048-0025	25 ml

CD75 (B-Cell Marker); Clone LN1 (Ready-To-Use)

Species: Mouse
 Immunogen: Nuclei from pokeweed mitogen-stimulated peripheral blood lymphocytes.
 Clone: LN1
 Isotype: IgM, Kappa.
 Species Reactivity: Human, Others-not known
 Positive Control: HeLa or Daudi Cells. Germinal center B-cells in a lymph node or tonsil. Use LN1's ability to stain surface of erythrocytes as an internal positive control.
 Specificity: Recognizes a neuraminidase-sensitive sialoprotein (CDw75), present on cell membrane and cytoplasm of germinal center B-cells and derived lymphomas. This antibody reacts with RBC precursors of bone marrow, ductal, and ciliated epithelial cells of kidney, breast, prostate, pancreas, lung, and with glioblastomas, astrocytomas, and Reed Sternberg cells in lymphocyte predominant Hodgkin's disease.

<u>Catalog Number</u>	<u>Volume</u>
A00047-0002	2 ml
A00047-0007	7 ml
A00047-0025	25 ml

CDX2; Clone EP25 (Ready-To-Use)

Species: Rabbit
 Immunogen: Rabbits were injected with a synthetic peptide corresponding to residues near the C-terminus of human CDX-2.
 Clone: EP25
 Isotype: Rabbit IgG
 Species Reactivity: Human
 Positive Control: Colon for normal tissue and colon adenocarcinoma for abnormal tissue.
 Specificity: CDX-2 expression is restricted to nuclear staining in positive cells.

<u>Catalog Number</u>	<u>Volume</u>
A00147-0002	2 ml
A00147-0007	7 ml
A00147-0025	25 ml

Chromogranin A; Clone A3

Species: Mouse Monoclonal
 Clone: A3
 Isotype: IgG2b,k
 Species Reactivity: Human

Specificity: Chromogranin A is a 439 amino acid protein present in secretory granules of a wide variety of endocrine cells and neurons. A positive staining is seen in the secretory granules of parathyroid, adrenal medulla, anterior pituitary gland and Langerhans islets of the pancreas. This antibody stains a variety of neuroendocrine tumors.

<u>Catalog Number</u>	<u>Volume</u>
A20097	2 ml
A00097	6 ml
A00097.0025	25 ml

Chromogranin A; Clones LK2H10 & PHE5 (Ready-To-Use)

Species: Mouse
 Immunogen: Human pheochromocytoma (LK2H10 & PHE5).
 Clone: LK2H10 & PHE2
 Isotype: IgG1, Kappa (Both)
 Species Reactivity: Human, Monkey, Pig, Mouse and Rat. Others not known
 Positive Control: PC12 cells. Adrenal gland, bowel, thyroid, pancreas, or pheochromocytoma.
 Specificity: Chromogranin A is present in neuroendocrine cells throughout the body, including the neuroendocrine cells of the large and small intestine, adrenal medulla and pancreatic islets. It is an excellent marker for carcinoid tumors, pheochromocytomas, paragangliomas, and other neuroendocrine tumors.

<u>Catalog Number</u>	<u>Volume</u>
A00160-0002	2 ml
A00160-0007	7 ml
A00160-0025	25 ml

Cyclin D1; Clone CCND1/3370R (Ready-To-Use)

Species: Rabbit
 Immunogen: A synthetic peptide corresponding to residues within aa 270-295 of Cyclin D1.
 Clone: CCND1/3370R
 Isotype: IgG
 Species Reactivity: Human, Others-not known
 Positive Control: Human mantle cell lymphoma, breast or bladder carcinomas
 Cellular Localization: Nuclear
 Specificity: This antibody reacts with a 36 kD protein identified as cyclin D1.

<u>Catalog Number</u>	<u>Volume</u>
A00163-0002	2 ml
A00163-0007	7 ml
A00163-0025	25 ml

Cytokeratin (Pan); Clone Cocktail (Ready-To-Use)

Species: Mouse
 Immunogen: Multiple
 Clone: Multiple
 Isotype: IgG
 Species Reactivity: Human
 Positive Control: Skin
 Cellular Localization: Cytoplasmic
 Specificity: This antibody cocktail reacts with keratins 4, 5, 6, 7, 8, 10, 13, 14, 15, 16, 18, and 19. Cytokeratin (Pan) differentiates epithelial tumors from non-epithelial tumors.

<u>Catalog Number</u>	<u>Volume</u>
A00098-0002	2 ml
A00098-0007	7 ml
A00098-0025	25 ml

Cytokeratin 10; Clone DE-K10 (Ready-To-Use)

Species: Mouse
 Immunogen: Cytoskeletal preparation extracted from human ectocervical epithelium.
 Clone: DE-K10
 Isotype: IgG1, kappa
 Species Reactivity: Human, Dog and Cat. Others not known.
 Positive Control: Esophagus or Tonsil. A431, HeLa, MCF7 cells.
 Specificity: This antibody recognizes a protein of 56.5kDa identified as Cytokeratin 10.

<u>Catalog Number</u>	<u>Volume</u>
A00089-0002	2 ml
A00089-0007	7 ml
A00089-0025	25 ml

Cytokeratin 19; Clone A53-B/A2.26 (Ready-To-Use)

Species: Mouse
 Clone: A53-B/A2.26 (Ks 19.1)
 Isotype: Mouse IgG2a, Kappa
 Species Reactivity: Human. Reacts weakly with mouse, rat and guinea pig Cytokeratin 19.
 Positive Control: Skin, Breast carcinoma, Colon carcinoma, Thyroid.
 Specificity: This antibody reacts with the rod domain of human Cytokeratin 19, a polypeptide of 40kDa. The antibody recognition epitope maps between amino acid 312-335. This antibody reacts with the MCF-7 cells which are known to contain Cytokeratin 19.

<u>Catalog Number</u>	<u>Volume</u>
A00122-0002	2 ml
A00122-0007	7 ml
A00122-0025	25 ml

Cytokeratin 19; Clone BA17 (Ready-To-Use)

Species: Mouse Monoclonal
 Clone: BA 17
 Isotype: IgG1
 MW: 40 kD
 Species Reactivity: Human

Specificity: It is the smallest human keratin found in most simple and non-keratinizing stratified epithelia. This antigen is not present in adult intrafollicular epidermis. The antibody stains most of the epithelial cell types including ductal and glandular epithelia.

<u>Catalog Number</u>	<u>Volume</u>
A00094-0002	2 ml
A00094-0007	7 ml
A00094-0025	25 ml

Cytokeratin 20; Clone EP23 (Ready-To-Use)

Species: Rabbit
 Immunogen: Rabbits were injected with a synthetic peptide corresponding to residues near the C-terminus in human CK20 protein.
 Clone: EP23
 Isotype: Rabbit IgG
 Species Reactivity: Human
 Positive Control: Colon for normal tissue and colon cancer for abnormal tissue.
 Specificity: CK20 expression is restricted to cytoplasmic / cell surface staining in positive cells.

<u>Catalog Number</u>	<u>Volume</u>
A00146-0002	2 ml
A00146-0007	7 ml
A00146-0025	25 ml

Cytokeratin 5,6 Cocktail; Clones EP42 & EP67 (Ready-To-Use)

Species: Rabbit
 Designation: Rabbit Monoclonal Cocktail
 Clone: EP42 & EP67
 Isotype: IgG
 Species Reactivity: Human. Others not tested.
 Positive Control: Skin for normal tissue, Lung Squamous Cell Carcinoma or Mesothelioma for abnormal tissue.
 Specificity: Cytokeratin 5,6 is expressed in many non-keratinizing stratified squamous epithelia including: basal epithelia, hair follicles, trachea, tongue mucosa, as well as basal cells in prostate glands and myoepithelial cells in mammary glands. Cytokeratin 5,6 protein is also found in most epithelial and bispasic mesotheliomas, large cell carcinoma and pulmonary squamous cell carcinomas.

<u>Catalog Number</u>	<u>Volume</u>
A00141-0002	2 ml
A00141-0007	7 ml
A00141-0025	25 ml

Cytokeratin 6; Clone EP67 (Ready-To-Use)

Species: Rabbit
 Designation: Rabbit Monoclonal
 Clone: EP67
 Isotype: IgG
 Species Reactivity: Human. Others not tested.
 Positive Control: Skin for normal tissue and Mesothelioma for abnormal tissue.
 Specificity: Cytokeratin 6 is expressed in many non-keratinizing stratified squamous epithelia of large cell carcinoma and pulmonary squamous cell carcinomas. It can also be found on stratified epithelia including: basal layer of epidermis, the outer root sheath of hair follicles, esophagus, oral mucosa, as well as basal cells in prostate glands and myoepithelial cells in mammary glands.

<u>Catalog Number</u>	<u>Volume</u>
A00140-0002	2 ml
A00140-0007	7 ml
A00140-0025	25 ml

Cytokeratin 7; Clone OV-TL12/30 (Ready-To-Use)

Species: Mouse
 Clone: OV-TL12/30
 Isotype: IgG1
 Species Reactivity: Human. Others not tested.
 Positive Control: Carinoma of Ovary, Lung, Cervix or Breast.
 Specificity: Cytokeratin 7 expression is restricted to most glandular and transitional epithelia including lung, breast, bladder and female genital tract and their adenocarcinomas, but not in most gastrointestinal epithelium, prostate, hepatocyte and squamous epithelium.

<u>Catalog Number</u>	<u>Volume</u>
A00142-0002	2 ml
A00142-0007	7 ml
A00142-0025	25 ml

Cytokeratin 8; Clone K8/383 (Ready-To-Use)

Species: Mouse
 Clone: K8/383
 Isotype: IgG1
 Species Reactivity: Human, Rat. Others not tested.
 Positive Control: MCF-7 or A431 cells. Human Skin, Colon, Lung or Breast carcinoma.
 Specificity: Cytokeratin 8 Antibody belongs to the type II (or B or Basic) subfamily of high molecular weight Cytokeratins and exists in combination with Cytokeratin 18. Cytokeratin 8 is primarily found in the non-squamous epithelia and is present in a majority of adenocarcinomas and ductal carcinomas. It is absent in squamous cell carcinomas.

<u>Catalog Number</u>	<u>Volume</u>
A00136-0002	2 ml
A00136-0007	7 ml
A00136-0025	25 ml

Cytokeratin, High Molecular Weight; Clone 34bE12 (Ready-To-Use)

Species: Mouse
 Immunogen: Solubilized keratin extract from human stratum corneum
 Clone: 34BE12
 Isotype: IgG1, kappa
 Species Reactivity: Human, Mouse, and Rat. Others not known.
 Positive Control: PC12 cells, skin, prostate carcinoma.
 Specificity: This antibody recognizes CK1, CK5, CK10, and CK14. In normal epithelia, it stains stratified epithelia, myoepithelial cells, and basal cells in the prostate gland and bronchi. This antibody shows no reactivity with hepatocytes, pancreatic acinar cells, proximal renal tubules, or endometrial glands; there is no reactivity with cells derived from simple epithelia. Mesenchymal tumors, lymphomas, melanomas, neural tumors, and neuroendocrine tumors are negative with this antibody.

<u>Catalog Number</u>	<u>Volume</u>
A00071-0002	2 ml
A00071-0007	7 ml
A00071-0025	25 ml

Cytokeratin, Multi (Acidic); Clone AE1 (Ready-To-Use)

Species: Mouse Monoclonal
 Clone: AE-1
 Isotype: IgG1
 MW: 56.5, 50, 50', 48 and 40 kD
 Species Reactivity: Human, Monkey, Cow, Rabbit, Mouse, Rat, Chicken. Others not tested.
 Positive Control: Human epidermal keratin or carcinoma. HT29 cells.

Specificity: Monoclonal antibody AE1 recognizes the 56.5, 50, 50', 48, and 40kDa keratins of the acidic subfamily. Twenty human keratins are resolved with two-dimensional gel electrophoresis into acidic (pI<5.7) and basic (pI>6.0) subfamilies. The acidic keratins have molecular weights of 56.5, 55, 51, 50, 50', 48, 46, 45, and 40kDa.

Catalog Number	Volume
A00051-0002	2 ml
A00051-0007	7 ml
A00051-0025	25 ml

Cytokeratin, Multi (Basic); Clone AE-3 (Ready-To-Use)

Species: Mouse
 Immunogen: Human epidermal keratin
 Clone: AE-3
 Isotype: IgG1, kappa
 Species Reactivity: Human, Monkey, Cow, Dog, Rabbit, Mouse, Rat, Chicken. Others not known.
 Positive Control: Epithelial cells, skin or adenocarcinomas.
 Specificity: This antibody recognizes basic (Type II or HMW) cytokeratins, which include 67kDa (CK1); 64kDa (CK3); 59kDa (CK4); 58kDa (CK5); 56kDa (CK6); 52kDa (CK8).

Catalog Number	Volume
A00052-0002	2 ml
A00052-0007	7 ml
A00052-0025	25 ml

Cytokeratin, Pan; Clones AE1 & AE3 (Ready-To-Use)

Species: Mouse
 Immunogen: Human epidermal keratin
 Clone: AE-1 & AE-3
 Isotype: IgG1, kappa (AE-1); IgG1, kappa (AE-3)
 Species Reactivity: Human, Monkey, Cow, Dog, Rabbit, Mouse, Rat, Chicken. Others not known.
 Positive Control: Skin, Adeno- or Squamous carcinomas.
 Specificity: This antibody cocktail recognizes acidic (Type I or LMW) and basic (Type II or HMW) cytokeratins, which include 67kDa (CK1); 64kDa (CK3); 59kDa (CK4); 58kDa (CK5); 56kDa (CK6); 52kDa (CK8); 56.5kDa (CK10); 50kDa (CK14); 50kDa (CK15); 48kDa (CK16); 40kDa (CK19). This antibody stains cytokeratins present in normal and abnormal human tissues and has shown high sensitivity in the recognition of epithelial cells and carcinomas.

Catalog Number	Volume
A00152-0002	2 ml
A00152-0007	7 ml
A00152-0025	25 ml

Desmin, Clone D33 (Ready-To-Use)

Species: Mouse
 Immunogen: Proteins from human Leiomyoma.
 Clone: D33
 Isotype: IgG1, kappa
 Species Reactivity: Human, Rat, Mouse, Hamster, Chicken. Others not known.
 Positive Control: Muscle, Uterus, Leiomyosarcoma or SJRH30 cells.
 Specificity: Desmin, Clone D33 detects cells of normal smooth, skeletal, and cardiac muscles. This antibody reacts with leiomyomas, leiomyosarcoma, rhabdomyomas, rhabdomyosarcoma, and perivascular cells of glomus tumors of the skin.

Catalog Number	Volume
A00007-0002	2 ml
A00007-0007	7 ml
A00007-0025	25 ml

Epithelial Membrane Antigen; Clone E29 (Ready-To-Use)

Species: Mouse
 Immunogen: Delipidated extract of human milk fat globule membranes
 Clone: E29
 Isotype: IgG2a, kappa
 Species Reactivity: Human. Reacts moderately with Pig and Dog. Others not known.
 Positive Control: MCF-7 or MDA-231 cells. Breast or colon carcinoma.
 Specificity: In Western blotting, this antibody recognizes proteins in a MW range of 265-400kDa, identified as different glycoforms of MUC1. This antibody reacts with the DTRP epitope within the tandem repeats. In immunohistochemical assays, it superbly stains routine formalin/paraffin carcinoma tissues. An antibody to MUC1 is useful as a pan-epithelial marker for detecting early metastatic loci of carcinoma in bone marrow or liver.

Catalog Number	Volume
A00008-0002	2 ml
A00008-0007	7 ml
A00008-0025	25 ml

GFAP; Clone ASTRO/789 (Ready-To-Use)

Species: Mouse
 Immunogen: Recombinant GFAP protein
 Clone: ASTRO/789
 Isotype: IgG1
 Species Reactivity: Human, Mouse, Rat, Cow, Pig, Rabbit, and Chicken. Others not known.
 Positive Control: Brain or Astrocytoma.
 Specificity: This antibody recognizes a protein of ~50kDa which is identified as Glial Fibrillary Acidic Protein (GFAP). It shows no cross-reaction with other intermediate filament proteins.

Catalog Number	Volume
A00158-0002	2 ml
A00158-0007	7 ml
A00158-0025	25 ml

Glial Fibrillary Acidic Protein (GFAP); Clone GA-5 (Ready-To-Use)

Species: Mouse
 Immunogen: Porcine Spinal Chord
 Mol. Weight: 51-52kDa
 Clone: GA-5
 Isotype: IgG1
 Species Reactivity: Human, Pig, Rat, and Chicken. Others not tested.
 Positive Control: IMR5, Brain, or Astrocytoma.
 Cellular Localization: Cytoplasmic.

Specificity: Glial Fibrillary Acidic Protein (GFAP) is specific to astrocytes and ependymal cells of the central nervous system. This product effectively stains astrocytes, glial cells, ependymal cells and their associated tumors.

<u>Catalog Number</u>	<u>Volume</u>
A00102-0002	2 ml
A00102-0007	7 ml
A00102-0025	25 ml

Hairy Cell Leukemia; Clone DBA.44 (Ready-To-Use)

Species: Mouse
 Immunogen: BALB/C mice were injected with Deau cell line established from a diffuse large cell lymphoma of centroblastic type.
 Clone: DBA.44
 Isotype: IgM, Kappa.
 Species Reactivity: Human
 Positive Control: Tonsil

Specificity: This antibody reacts with an unknown, fixation-resistant antigen expressed by mantle zone lymphocytes, reactive immunoblasts, monocytoid B cells, and a small proportion of high- and low-grade lymphomas. This antibody reacts with over 97% of hairy cell leukaemia as well as about 35% of high grade B cell lymphomas. It reacts with B lymphocytes, cells of mantle zone and immunoblasts outside the lymphoid tissues.

<u>Catalog Number</u>	<u>Volume</u>
A00015-0002	2 ml
A00015-0007	7 ml
A00015-0025	25 ml

Insulin; Clone 2D11-H5 (Ready-To-Use)

Species: Mouse
 Clone: 2D11-H5
 Isotype: Mouse IgG1, Kappa
 Species Reactivity: Human, Pig, Cow.
 Positive Control: Pancreatic tissue.
 Specificity: Detects insulin and insulin producing cells.

<u>Catalog Number</u>	<u>Volume</u>
A00114-0002	2 ml
A00114-0007	7 ml
A00114-0025	25 ml

Kappa; Clone L1C1 (Ready-To-Use)

Species: Mouse
 Clone: L1C1
 Isotype: Mouse IgG1, Kappa
 Species Reactivity: Human.
 Positive Control: Tonsil.
 Specificity: The kappa light chain antibody recognizes the kappa light chain of immunoglobulin.

<u>Catalog Number</u>	<u>Volume</u>
A00113-0002	2 ml
A00113-0007	7 ml
A00113-0025	25 ml

Lambda Light Chain; Clone LcN-2 (Ready-To-Use)

Species: Mouse
 Immunogen: Purified human IgG
 Clone: LcN-2
 Isotype: IgG2a, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.
 Specificity: This monoclonal antibody is specific to the lambda light chain of immunoglobulins and shows no cross-reaction with the kappa light chain or any of the five heavy chains.

<u>Catalog Number</u>	<u>Volume</u>
A00155-0002	2 ml
A00155-0007	7 ml
A00155-0025	25 ml

MART-1; Clone M2-7C10 (Ready-To-Use)

Species: Mouse
 Clone: M2-7C10
 Isotype: Mouse IgG2b, Kappa
 Species Reactivity: Human. Clone M2-7C10 does not react with mouse or rat.
 Positive Control: Metastatic melanoma in lymph nodes.
 Specificity: The clone M2-7C10 MART-1 antibody labels melanomas and other tumors showing melanocyte differentiation.

<u>Catalog Number</u>	<u>Volume</u>
A00115-0002	2 ml
A00115-0007	7 ml
A00115-0025	25 ml

MART-1; Clone M2-9E3 (Ready-To-Use)

Species: Mouse
 Clone: M2-9E3
 Isotype: Mouse IgG2b, Kappa
 Species Reactivity: Human, Mouse, Rat.
 Positive Control: Metastatic melanoma in lymph nodes.
 Specificity: The clone M2-9E2 MART-1 antibody labels melanomas and other tumors showing melanocyte differentiation.

<u>Catalog Number</u>	<u>Volume</u>
A00116-0002	2 ml
A00116-0007	7 ml
A00116-0025	25 ml

MART-1; Clones M2-7C10 & M2-9E3 (Ready-To-Use)

Species: Mouse
 Clones: M2-7C10 & M2-9E3
 Isotype: Mouse IgG2b, kappa
 Species Reactivity: Human.
 Positive Control: Human Melanoma.
 Specificity: MART-1 has been shown to be a very specific marker for melanomas.

<u>Catalog Number</u>	<u>Volume</u>
A00133-0002	2 ml
A00133-0007	7 ml
A00133-0025	25 ml

Melanoma Associated Antigen; Clone KBA.62 (Ready-To-Use)

Species: Mouse
 Immunogen: Human KAL cells derived from lymph node metastasis of malignant melanoma
 Clone: KBA.62
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Melanoma
 Cellular Localization: Cell Surface
 Specificity: KBA.62 is a novel anti-melanoma antibody. It reacts positively against melanocytic tumors but not against other tumors, thus demonstrating specificity and sensitivity. Moreover, it reacts positively against junctional nevus cells but not intradermal nevi, and against fetal melanocytes but not normal adult melanocytes.

<u>Catalog Number</u>	<u>Volume</u>
A00153-0002	2 ml
A00153-0007	7 ml
A00153-0025	25 ml

Melanoma; Clone HMB45 (Ready-To-Use)

Species: Mouse Monoclonal
 Clone: HMB45
 Isotype: IgG1 / Kappa
 Species Reactivity: Human. Does not react with dog and rat.
 Positive Control: Melanoma

Specificity: By immunohistochemistry, it specifically recognizes a protein in melanocytes and melanomas. Biochemical nature of its antigen is yet not fully characterized. This antibody reacts with junctional and blue nevus cells and variably with fetal and neonatal melanocytes. Intradermal nevi, normal adult melanocytes, and non-melanocytic cells are negative. It does not stain tumor cells of epithelial, lymphoid, glial, or mesenchymal origin.

<u>Catalog Number</u>	<u>Volume</u>
A00019-0002	2 ml
A00019-0007	7 ml
A00019-0025	25 ml

Melanoma; Pan (Ready-To-Use)

Species: Mouse
 Clones: MART-1; Clone M2-7C10, MART-1; Clone M2-9E3, Tyrosinase; Clone T311, Melanoma: HMB45.
 Isotype: Mouse IgG1
 Species Reactivity: Human.
 Positive Control: Human Melanoma
 Specificity: Melanoma; Pan is a broad spectrum marker for metastatic melanoma.

<u>Catalog Number</u>	<u>Volume</u>
A00134-0002	2 ml
A00134-0007	7 ml
A00134-0025	25 ml

MIC2 Gene Protein, CD99; Clone HO36-1.1 (Ready-To-Use)

Species: Mouse
 Immunogen: Purified E-rosette forming cells from human peripheral blood lymphocytes.
 Clone: HO36-1.1
 Isotype: IgM, Kappa.
 Species Reactivity: Human and Rat. Others-not known
 Positive Control: Pancreas or Ewing's sarcoma.
 Specificity: Recognizes a sialoglycoprotein of 27-32kDa, identified as CD99, MIC2 gene product, or E2 antigen. This antibody shows a very similar reactivity to other CD99 antibodies (e.g. O13, 12E7, or HBA-71) and is excellent for immunohistochemical staining of formalin-fixed, paraffin-embedded tissues.

<u>Catalog Number</u>	<u>Volume</u>
A00044-0002	2 ml
A00044-0007	7 ml
A00044-0025	25 ml

MSH6; Clone MSH6/3091 (Ready-To-Use)

Species: Mouse
 Immunogen: Recombinant fragment of human MSH6 protein (around aa 374-540) (exact sequence is proprietary).
 Clone: MSH6/3091
 Isotype: IgG2b, Kappa
 Species Reactivity: Human, Others-not known
 Positive Control: HCT116, MCF-7 cells, Human colon carcinoma (IHC).
 Specificity: This antibody reacts with a 163kDa protein identified as MSH6. Positive staining for MSH6 is seen in the nuclei of colon carcinomas, stromal cells and lymphocytes.
 Cellular Localization: Nuclear

<u>Catalog Number</u>	<u>Volume</u>
A00162-0002	2 ml
A00162-0007	7 ml
A00162-0025	25 ml

MUC5AC (Gastric Mucin); Clone 45M1 (Ready-To-Use)

Species: Mouse
 Clone: 45M1
 Isotype: Mouse IgG1, Kappa
 Species Reactivity: Human, Monkey, Cat, Chicken, Hedgehog, Mouse, Pig, Rabbit, Rat. Does not react with cow.
 Positive Control: Stomach.
 Specificity: MUC5AC is expressed in airway and gastric epithelial cells and highly expressed in colorectal carcinomas.

<u>Catalog Number</u>	<u>Volume</u>
A00124-0002	2 ml
A00124-0007	7 ml
A00124-0025	25 ml

Napsin A; Clones NAPS/1238 & NAPS/1239 (Ready-To-Use)

Species: Mouse
 Immunogen: Recombinant human Napsin-A protein fragment (aa 189-299). Exact sequence is proprietary.
 Clones: NAPS/1238 & NAPS/1239
 Isotype: IgG1, Kappa
 Species Reactivity: Human. Others not tested.
 Positive Control: Lung adenocarcinoma.
 Specificity: This antibody is specific for a pepsin-like aspartic proteinase identified as Napsin A.

<u>Catalog Number</u>	<u>Volume</u>
A00131-0002	2 ml
A00131-0007	7 ml
A00131-0025	25 ml

Neurofilament (H&L); Clone 2F11 (Ready-To-Use)

Species: Mouse
 Clone: 2F11
 Isotype: IgG1, Kappa
 Species Reactivity: Human, Rabbit, Cat, Mouse and Rat. Does not react with dog.
 Positive Control: Brain

Specificity: This antibody stains neurons (axons) of the central and peripheral nervous system. It is useful for the identification of tumors with neuronal differentiation viz. Neuroblastomas, Ganglioneuromas, Pheochromocytomas and Esthesioblastomas. The antibody cross-reacts with the NF-equivalent protein in mouse, rabbit, rat and swine. The antibody can also be utilized to discriminate between Hirschsprung's disease and allied enteric nervous system malformations.

<u>Catalog Number</u>	<u>Volume</u>
A00020-0002	2 ml
A00020-0007	7 ml
A00020-0025	25 ml

Neurofilament; Clone NFL/736 (Ready-To-Use)

Species: Mouse
 Immunogen: Recombinant human NEFL protein.
 Clone: NFL/736
 Isotype: IgG1, Kappa
 Species Reactivity: Human, Rat, Pig, Cow, and Chicken. Others-not known
 Positive Control: HEK293 cells, Brain, Neuroblastoma
 Specificity: This antibody reacts with a 68 kDa protein, identified as light sub-unit of neurofilaments (NF-L). This antibody stains a number of neural, neuroendocrine, and endocrine tumors. In addition, Neuromas, ganglioneuromas, gangliogliomas, and neuroblastomas stain positively for anti-neurofilament.

<u>Catalog Number</u>	<u>Volume</u>
A00165-0002	2 ml
A00165-0007	7 ml
A00165-0025	25 ml

Neurofilament; Clone NR-4 (Ready-To-Use)

Species: Mouse
 Immunogen: Crude neurofilament preparation from porcine spinal cord.
 Clone: NR-4
 Isotype: IgG1, Kappa
 Species Reactivity: Human, Rat, Pig, Cow, Chicken. Others-not known
 Positive Control: HEK293 cells, Brain, Neuroblastoma.
 Specificity: This antibody reacts with a 68kDa protein, identified as light sub-unit of neurofilaments (NF-L). This antibody stains a number of neural, neuroendocrine, and endocrine tumors. Neuromas, ganglioneuromas, gangliogliomas, ganglioneuroblastomas, and neuroblastomas stain positively for anti-neurofilament. Neurofilaments are also present in paragangliomas as well as adrenal and extra-adrenal pheochromocytomas. Carcinoids, neuroendocrine carcinomas of the skin, and oat cell carcinomas of the lung also express neurofilament.

<u>Catalog Number</u>	<u>Volume</u>
A00166-0002	2 ml
A00166-0007	7 ml
A00166-0025	25 ml

p21WAF1; Clone CIP1/4377R (Ready-To-Use)

Species: Rabbit
 Immunogen: Synthetic peptide corresponding to p21 residues within aa1-100 of p21 was used as an immunogen.
 Clone: CIP1/4377R
 Isotype: IgG
 Species Reactivity: Human, Others-not known
 Positive Control: HeLa cells. Skin, Colon, or Breast Carcinoma.
 Specificity: This antibody reacts with a 21kDa protein, identified as the p21WAF1 tumor suppressor protein. This antibody is highly specific to p21 and shows no cross-reaction with other closely related mitotic inhibitors.

<u>Catalog Number</u>	<u>Volume</u>
A00167-0002	2 ml
A00167-0007	7 ml
A00167-0025	25 ml

p21WAF1; Clone WA-1 (Ready-To-Use)

Species: Mouse
 Clone: WA-1
 Isotype: Mouse IgG1, Kappa
 Species Reactivity: Human.
 Positive Control: Colon Carcinoma.
 Specificity: The antibody is highly specific to p21; it does not cross-react with other closely related mitotic inhibitors. Specificity validations include antibody recognition of recombinant p21 by western blot (Koike, 2011) and in direct ELISA assays (Rossner, 2002 & 2007). Although the exact epitope for the antibody has not been mapped, the epitope appears to be different from those recognize by other p21 antibody clones.

<u>Catalog Number</u>	<u>Volume</u>
A00125-0002	2 ml
A00125-0007	7 ml
A00125-0025	25 ml

p53; Clone BP53-12 (Ready-To-Use)

Species: Mouse
 Clone: BP53-12
 Isotype: IgG2a, Kappa
 Species Reactivity: Human. Will not cross-react with mouse or rat.
 Cellular Localization: Nuclear.
 Specificity: This p53 antibody recognizes a 53kDa protein, which is identified as p53 suppressor gene product. The antibody reacts with the mutant as well as the wild form of p53 under denaturing and non-denaturing conditions. The epitope maps within the N-terminus (aa 20-25) of p53 oncoprotein.

<u>Catalog Number</u>	<u>Volume</u>
A00109-0002	2 ml
A00109-0007	7 ml
A00109-0025	25 ml

p53; Clone DO-1 (Ready-To-Use)

Species: Mouse Monoclonal
 Clone: DO-1
 Isotype: IgG2a
 MW: 53 kD
 Species Reactivity: Human, Monkey, Cow, and weak reaction with Mouse and Rat.
 Positive Control: About 50% of breast carcinomas are positive for p53, especially those lacking estrogen and/or progesterone receptor, or with high proliferation index.

Specificity: Recognizes a 53kDa phosphoprotein, identified as p53 suppressor gene product. It reacts with mutant as well as wild form of p53. Its epitope maps within the N-terminus (aa37-45) of p53. Monoclonal antibody Pab 1801 does not block the binding of DO-1 to p53 in an ELISA test.

<u>Catalog Number</u>	<u>Volume</u>
A00027-0002	2 ml
A00027-0007	7 ml
A00027-0025	25 ml

p53; Clone DO-7 (Ready-To-Use)

Species: Mouse
 Immunogen: Recombinant human wild type p53 protein expressed in E. coli.
 Clone: DO-7
 Isotype: IgG2b,k
 MW: 53 kD
 Species Reactivity: Human, Monkey, and Cow. Others not known.
 Positive Control: MDA-MB-231 Cells. Breast or colon carcinoma. About 50% of breast carcinomas are positive for p53, especially those lacking estrogen and/or progesterone receptor, or with high proliferation index.
 Specificity: Recognizes a 53kDa protein, which is identified as p53 suppressor gene product. It reacts with the mutant as well as the wild type form of p53. Its epitope maps within the N-terminus (aa 37-45) of p53.

<u>Catalog Number</u>	<u>Volume</u>
A00021-0002	2 ml
A00021-0007	7 ml
A00021-0025	25 ml

PCNA; Clone PC10 (Ready-To-Use)

Species: Mouse Monoclonal
 Clone: PC10
 Isotype: IgG2a/k
 MW: 36 kD
 Species Reactivity: Human, Murine, Insect, and Yeast
 Positive Control: Tonsil or reactive lymph node.

Specificity: Recognizes a non-histone protein of 36kDa which is identified as proliferating cell nuclear antigen (PCNA). It is also known as cyclin or polymerase delta auxiliary protein. Elevated expression of PCNA/cyclin has been shown in the nucleus during late G1 phase immediately before the onset of DNA synthesis, becoming maximal during S-phase and declining during G2 and M phases.

<u>Catalog Number</u>	<u>Volume</u>
A00022-0002	2 ml
A00022-0007	7 ml
A00022-0025	25 ml

Placental Alkaline Phosphatase (PLAP); Clone ALP/870 (Ready-To-Use)

Species: Mouse
 Immunogen: Recombinant human PLAP protein
 Clone: ALP/870
 Isotype: IgG2b, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: HepG2 cells. Placenta or seminoma.
 Specificity: Reacts with a 70kDa membrane-bound isozyme (Regan and Nagao type) of Placental Alkaline Phosphatase (PLAP) occurring in the placenta during the 3rd trimester of gestation. It is highly specific for PLAP and shows no cross-reaction with other isozymes of alkaline phosphatase.

<u>Catalog Number</u>	<u>Volume</u>
A00154-0002	2 ml
A00154-0007	7 ml
A00154-0025	25 ml

PSAP (Prostate Specific Acid Phosphatase); Clone PASE/4LJ (Ready-To-Use)

Species: Mouse Monoclonal
 Clone: PASE/4LJ
 Isotype: IgG1
 MW: 52 kD
 Species Reactivity: Human, Dog, Rabbit, and Rat.
 Positive Control: Normal prostate or prostate carcinoma.

Specificity: Recognizes a protein of 52kDa, identified as prostate specific acid phosphatase (PSAP). PASE/4LJ is highly specific to PSAP and shows no cross-reaction with other phosphatases. It does not inhibit the enzymatic activity of PSAP. This antibody reacts with non-neoplastic adult and fetal prostatic glands, primary and metastatic prostatic carcinomas. ScyTek's PASE/4LJ is recommended for immunohistochemical staining of formalin-fixed, paraffin-embedded tissues. Unlike polyclonal antibody to PSAP, PASE/4LJ Mab shows no staining in granulocytes, osteoclasts, parietal cells of the stomach, liver cells, renal cell or breast carcinomas.

Catalog Number	Volume
A00041-0002	2 ml
A00041-0007	7 ml
A00041-0025	25 ml

S-100; Clone 4C4.9 (Ready-To-Use)

Species: Mouse Monoclonal
 Clone: 4C4.9
 Isotype: IgG2a
 MW: 21-24 kD
 Species Reactivity: Human, Cow, Mouse
 Positive Control: Melanoma or Schwannoma.

Specificity: Recognizes proteins of 21-24kDa, identified as the A and B subunits of S100 protein. S100 belongs to the family of calcium binding proteins such as calmodulin and troponin C. S100A is composed of an alpha and beta chain whereas S100B is composed of two beta chains. Antibody to S100 stains Schwannomas, ependymomas, astroglomas, almost all benign and malignant melanomas and their metastases. S100 protein is also expressed in the antigen presenting cells such as the Langerhans cells in skin and interdigitating reticulum cells in the paracortex of lymph nodes. S100 protein is highly soluble and may be eluted from frozen tissue during staining.

Catalog Number	Volume
A00087-0002	2 ml
A00087-0007	7 ml
A00087-0025	25 ml

Secretory Component; Clone SC05 (Ready-To-Use)

Species: Mouse
 Clone: SC05
 Isotype: IgG1, Kappa
 Species Reactivity: Human, Rat. Others not tested.
 Positive Control: Breast carcinoma, Lung, Stomach.
 Specificity: This antibody reacts with both free and bound secretory component to secretory IgA.

Catalog Number	Volume
A00127-0002	2 ml
A00127-0007	7 ml
A00127-0025	25 ml

SOX10; Clone SOX10/991 (Ready-To-Use)

Species: Mouse
 Immunogen: Recombinant human SOX10 protein fragment (aa115-269) (exact sequence is proprietary).
 Clone: SOX10/991
 Isotype: IgG2b, Kappa.
 Species Reactivity: Human and Mouse. Others-not known.
 Positive Control: HepG2 cells, Melanoma, breast carcinomas, gliomas.
 Specificity: Recognizes a protein of ~55kDa, identified as SOX10. This antibody does not cross-react with other members of the SOX-family.

Catalog Number	Volume
A00161-0002	2 ml
A00161-0007	7 ml
A00161-0025	25 ml

Thyroglobulin; Clone 2H11 (Ready-To-Use)

Species: Mouse
 Clone: 2H11
 Isotype: IgG1, Kappa
 Species Reactivity: Human
 Cellular Localization: Cytoplasmic
 Specificity: Thyroglobulin is a 660 kDa dimeric preprotein with multiple glycosylation sites is produced by and processed within the thyroid gland to produce the hormone thyroxine and triiodothyronine. Prior to forming dimers, thyroglobulin monomers undergo conformation maturation in the endoplasmic reticulum. Thyroglobulin dimerization as well as transport of thyroglobulin to the Golgi complex is calcium dependent. Thyroglobulin defects resulting from defective dimer formation and export to the Golgi is thought to cause some types of goiter. Antibody against thyroglobulin may be produced by individuals with other diseases arising from the gland such as Hashimoto's or Graves disease. Hence the presence of thyroglobulin autoantibodies can help to identify disease. Antibody to thyroglobulin has been shown to be useful for the identification of papillary and follicular thyroid carcinoma; thyroglobulin antibody positive lesions are of thyroidal origin. Carcinomas of nonthyroidal origin do not express thyroglobulin and hence are thyroglobulin antibody negative. It is important to note though that not every type of thyroidal lesion is thyroglobulin antibody positive, a number of forms are negative. Hence a negative result does not necessarily rule out that a given lesion or metastasis originated from the thyroid gland.

Catalog Number	Volume
A00108-0002	2 ml
A00108-0007	7 ml
A00108-0025	25 ml

TTF-1; Clone 8G7G3/1 (Ready-To-Use)

Species: Mouse
 Designation: Mouse Monoclonal
 Clone: 8G7G3/1
 Isotype: IgG1
 Species Reactivity: Human. Others not tested.
 Positive Control: Adenocarcinoma of the Lung or Thyroid.
 Specificity: This antibody reacts with TTF-1 protein found in adenocarcinomas of the lung and tumors originating in the thyroid. TTF-1 positive cells are found in Type II pneumocytes and Clara cells in the lung. In the thyroid, follicular and parafollicular cells are positive. In lung cancers, Adenocarcinomas are usually positive, while Squamous Cell Carcinomas and Large Cell Carcinomas are rarely positive. In addition, Small-Cell Carcinomas (of any primary site) are usually positive.

<u>Catalog Number</u>	<u>Volume</u>
A00144-0002	2 ml
A00144-0007	7 ml
A00144-0025	25 ml

Tyrosinase; Clone T311 (Ready-To-Use)

Species: Mouse
 Clone: T311
 Isotype: Mouse IgG1
 Species Reactivity: Human.
 Positive Control: Human Melanoma
 Specificity: Tyrosinase has been shown to be a very specific marker for melanomas. Cross reactivity with other tumors or normal tissues tested has not been reported.

<u>Catalog Number</u>	<u>Volume</u>
A00132-0002	2 ml
A00132-0007	7 ml
A00132-0025	25 ml

Uchl1 (PGP9.5); Clone 31A3 (Ready-To-Use)

Species: Mouse
 Clone: 31A3
 Isotype: Mouse IgG1, Kappa
 Species Reactivity: Cow, Human, Mouse, Pig, Rat.
 Positive Control: Brain.
 Specificity: The Uchl1 clone 31A3 antibody stains neuronal cell bodies and axons in the central and peripheral nervous systems as well as small nerve fibers in peripheral tissues, including epidermal tissues (Day & Thompson, 2010). The antibody also stains neuroendocrine cells in the kidney, pituitary, thyroid, pancreas, gastrointestinal tract, and tumors of the diffuse neuroendocrine system. This antibody has also identified Uchl1 expression in renal tubule spermatogonia, testis, ovary, and both pregnant and non-pregnant corpus luteum.

<u>Catalog Number</u>	<u>Volume</u>
A00120-0002	2 ml
A00120-0007	7 ml
A00120-0025	25 ml

Vimentin; Clone SP20 (Ready-To-Use)

Species: Rabbit
 Immunogen: Recombinant protein encoding human vimentin.
 Mol. Weight: 57-60kDa
 Clone: SP20
 Isotype: IgG
 Specificity: This antibody selectively stains vimentin in human tissue sections. Vimentin is the main intermediate filament in mesenchymal cells and is therefore of value in the differential diagnosis of undifferentiated neoplasms.
 Species Reactivity: Human. Others not tested.

<u>Catalog Number</u>	<u>Volume</u>
A00105-0002	2 ml
A00105-0007	7 ml
A00105-0025	25 ml

Vimentin; Clone V9 (Ready-To-Use)

Species: Mouse Monoclonal
 Clone: V9
 Isotype: IgG1/k
 MW: 57-60 kD
 Species Reactivity: Human, Monkey, Cow, Horse, Pig, Rabbit, Dog, Cat, Rat, Mouse, Hamster, Gerbil and Chicken.
 Positive Control: Sarcomas, meningiomas, or melanomas.

Specificity: Recognizes a 57-60kDa protein which is identified as vimentin. It shows no cross reactivity with other closely related intermediate filament proteins including desmin and GFAP.

<u>Catalog Number</u>	<u>Volume</u>
A00045-0002	2 ml
A00045-0007	7 ml
A00045-0025	25 ml

Monoclonal Concentrates**Actin, Alpha-Smooth Muscle; Clone 1A4 (Concentrate)**

Species: Mouse Monoclonal
 Clone: 1A4
 Isotype: IgG2a,k
 Species Reactivity: Human, Baboon, Cow, Rabbit, Mouse, Rat, Chicken.
 Positive Control: Blood vessels

Specificity: This antibody recognizes the a-smooth muscle form of actin. It shows no cross reaction with actin from fibroblasts (b- and g-cytoplasmic), striated muscle (a-sarcometric), and myocardium (a-myocardial). Its epitope is composed of the acetyl group and the first 4 amino acids on the N-terminal end of the peptidic chain of a-smooth actin. ScyTek's 1A4 stains smooth muscle cells in vessel walls, gut wall, and myometrium. Myoepithelial cells in breast and salivary gland are also stained as they also contain this actin.

<u>Catalog Number</u>	<u>Volume</u>
A00002-C.1	0.1 ml
A00002-C	1 ml

Actin, Muscle Specific; Clone HHF35 (Concentrate)

Species: Mouse
 Immunogen: SDS extract of human myocardium.
 Clone: HHF35
 Isotype: IgG1, Kappa
 Species Reactivity: Human, Rabbit, Cat, Dog, Mouse, Rat, Chicken. Others-not known
 Positive Control: Muscle or sarcoma

Specificity: This antibody reacts with actin of skeletal, cardiac, and smooth muscle cells. It is not reactive with other mesenchymal cells except for myoepithelium. This antibody recognizes alpha and gamma isotypes of all muscle groups. Non-muscle cells such as vascular endothelial cells and connective tissues are non-reactive. Also, neoplastic cells of non-muscle-derived tissue such as carcinomas, melanomas, and lymphomas are negative. In addition, it stains tumors of smooth muscle (leiomyomas and leiomyosarcomas) as well as skeletal muscle (rhabdomyomas and rhabdomyosarcomas).

<u>Catalog Number</u>	<u>Volume</u>
A00001-C.1	0.1 ml
A00001-C	1 ml

Bcl-2; Clone 100/D5 (Concentrate)

Species: Mouse
 Clone: 100/D5
 Isotype: Mouse IgG1, Kappa
 Species Reactivity: Human, Monkey. Others not tested.
 Positive Control Tonsil.
 Cellular Localization: Cytoplasmic & Cell Membrane.
 Specificity: Human Bcl-2 alpha is a 239 amino acid (aa) protein and human Bcl-2 beta is a 205 aa protein. The 100/D5 antibody [also known as clone Bcl-2/100 (Kren, 2004, Kaur, 2004)] recognizes both Bcl-2 isoforms (Pezzela et al, 1990).

<u>Catalog Number</u>	<u>Volume</u>
A00119-C.1	0.1 ml
A00119-C	1 ml

Bcl-2; Clone 124 (Concentrate)

Species: Mouse
 Immunogen: A synthetic peptide, aa41-54 (GAAPAGIFSSQPG-Cys) of human Bcl-2 protein
 Clone: 124
 Isotype: IgG1, kappa
 Species Reactivity: Human. Does not react with Mouse and Rat. Others not known.
 Positive Control: Jurkat, K562, HL-60, or HeLa Cells. Tonsil or follicular lymphomas.
 Specificity: This antibody recognizes a protein of 25-26kDa, identified as the Bcl-2 alpha oncoprotein. It shows no cross-reaction with Bcl-x or Bax protein.

<u>Catalog Number</u>	<u>Volume</u>
A00004-C.1	0.1 ml
A00004-C	1 ml

Bcl-6; Clone BCL6/2497R (Concentrate)

Species: Rabbit
 Immunogen: Recombinant human bcl-6 protein fragment (aa256-389) (exact sequence is proprietary).
 Clone: BCL6/2497R
 Isotype: IgG
 Species Reactivity: Human, Others-not known
 Positive Control: Raji or Ramos cells. Tonsil
 Cellular Localization: Nuclear
 Specificity: This antibody reacts with a protein of 95kDa, which is identified as Bcl-6.

<u>Catalog Number</u>	<u>Volume</u>
A00164-C.1	0.1 ml
A00164-C	1 ml

CA19-9; Clone 121SLE (Concentrate)

Species: Mouse
 Clone: 121SLE
 Isotype: IgM, Kappa
 Species Reactivity: Human
 Cellular Localization: Luminal surface and cytoplasm.
 Specificity: CA19-9, a carbohydrate epitope expressed on a high MW (>400kDa) mucin glycoprotein, is a sialyl Lewisia structure which is synthesized from type 1 blood group precursor chains and is present in individuals expressing the Lewisia and/or Lewis blood group antigens. In normal tissues, sialyl Lewisia antigen is present in ductal epithelium of the breast, kidney, salivary gland, and sweat glands. Its expression is greatly enhanced in serum as well as in the majority of tumor cells in gastrointestinal (GI) carcinomas, including adenocarcinomas of the stomach, intestine, and pancreas. Preoperative elevated CA19-9 levels in patients with stage I pancreatic carcinoma decrease to normal values following surgery. When used serially, CA19-9 can predict recurrence of disease prior to radiographic or clinical findings.

<u>Catalog Number</u>	<u>Volume</u>
A00107-C.1	0.1 ml
A00107-C	1 ml

Carcinoembryonic Antigen, Pan (CEA); Clone COL-1 (Concentrate)

Species: Mouse
 Immunogen: BALB/c mice were injected with an extract of human colon carcinoma.
 Clone: COL-1
 Isotype: IgG1 Kappa
 Species Reactivity: Human. Others not tested.
 Positive Control: Colon Adenocarcinoma.
 Specificity: This antibody labels the CEA-positive glycocalyx surface of gastrointestinal cells and is useful for the identification of colon carcinomas.

<u>Catalog Number</u>	<u>Volume</u>
A00135-C	1 ml

CD10, CALLA (Neutral Endopeptidase); Clone 56C6 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human CD10 protein fragment.
 Clone: 56C6
 Isotype: IgG1, kappa
 Species Reactivity: Human, Rat. Others not tested.
 Positive Control: Kidney, small intestine, or tonsil.
 Specificity: Recognizes a 100kDa glycoprotein, identified as CD10, also known as Common Acute Lymphatic Leukemia Antigen (CALLA).

<u>Catalog Number</u>	<u>Volume</u>
A00091-C.1	0.1 ml
A00091-C	1 ml

CD15 / FUT4; Clone Leu-M1 (Concentrate)

Species: Mouse
 Immunogen: U937 histiocytic cell line
 Clone: Leu-M1
 Isotype: IgM, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: U937 cells, Reed-Sternberg's cells in Hodgkin's lymphoma.
 Specificity: This antibody reacts with a 220 kDa protein, CD15 / FUT4 expressed on Reed-Sternberg cells.

<u>Catalog Number</u>	<u>Volume</u>
A00151-C.1	0.1 ml
A00151-C	1 ml

CD20, B-Cell; Clone L26 (Concentrate)

Species: Mouse
 Immunogen: Human tonsil B-cells
 Clone: L26
 Isotype: IgG2a, kappa
 Species Reactivity: Human, Baboon, and Monkey. Does not react with Cow, Dog, Pig, and Rat. Others not known.
 Positive Control: Daudi, Raji, and U266, and human lymphocytes, lymph nodes and tonsils.
 Specificity: Recognizes a protein of 30-33kDa, which is identified as CD20. Its epitope is located in the cytoplasmic domain of CD20 and was, therefore, ascribed as CD20cy in the 5th Workshop.

<u>Catalog Number</u>	<u>Volume</u>
A00003-C.1	0.1 ml
A00003-C	1 ml

CD30, Ki-1 Antigen; Clone Ber-H2 (Concentrate)

Species: Mouse
 Immunogen: Cancer cell line established from a patient with Hodgkin's disease of T-cell lineage
 Clone: Ber-H2
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Hodgkin's lymphoma
 Specificity: Recognizes a single chain glycoprotein of 105/120kDa, identified as CD30/Ki-1. This Mab distinguishes large cell lymphomas derived from activated lymphoid cells from histiocytic malignancies and lymphomas derived from resting and precursor lymphoid cells or from anaplastic carcinomas.

<u>Catalog Number</u>	<u>Volume</u>
A00016-C.1	0.1 ml
A00016-C	1 ml

CD31, Endothelial Cell; Clone JC/70A (Concentrate)

Species: Mouse
 Immunogen: Membrane preparation of a spleen from a patient with hairy cell leukemia.
 Clone: JC/70A
 Isotype: IgG1, kappa
 Species Reactivity: Human, Cynomolgus Monkey, and Rabbit. Others not known.
 Positive Control: Tonsil, Angiosarcoma.
 Specificity: Anti-CD31 has shown to be highly specific and sensitive for vascular endothelial cells. Staining of nonvascular tumors (excluding hematopoietic neoplasms) is rare. Anti-CD31 reacts with normal, benign, and malignant endothelial cells which make up blood vessel lining.

<u>Catalog Number</u>	<u>Volume</u>
A00009-C.1	0.1 ml
A00009-C	1 ml

CD31; Clone C31.3 (Concentrate)

Species: Mouse
 Clone: C31.3
 Isotype: Mouse IgG1, Kappa
 Species Reactivity: Human.
 Positive Control: Tonsil, Liver, Kidney.
 Specificity: The CD31 antibody (clone C31.3 or PECAM-1) is widely used as a pan-endothelial cell marker to demonstrate the presence of endothelial cells in tissue sections by immunohistochemistry. The CD31 (PECAM-1) antibody reacts with normal, benign, and malignant endothelium.

<u>Catalog Number</u>	<u>Volume</u>
A00126-C	1 ml

CD31; Clone C31.7 (Concentrate)

Species: Mouse
 Clone: C31.7
 Isotype: IgG1, Kappa
 Species Reactivity: Human.
 Positive Control: Tonsil
 Cellular Localization: Primarily membrane.
 Specificity: This antibody recognizes a 100kDa glycoprotein in endothelial cells and 130kDa in platelets. This antibody reacts with endothelial cells in normal tissues and in benign and malignant proliferations. In cryostat sections and blood smears the antibody also stains megakaryocytes, platelets and occasionally plasma cells. It reacts weakly with mantle zone B cells, peripheral T cells, and neutrophils. Antibody to CD31 is of value in the study of benign and malignant vascular tumors. Staining for CD31 has also been used to measure angiogenesis, which reportedly predicts tumor recurrence.

<u>Catalog Number</u>	<u>Volume</u>
A00110-C	1 ml

CD34, Endothelial Cell; Clone QBEnd/10 (Concentrate)

Species: Mouse
 Immunogen: Detergent solubilized vesicular suspension prepared from human term placenta
 Clone: QBEnd/10
 Isotype: IgG1, kappa
 Species Reactivity: Human, Cynomolgus Monkey, Rhesus Monkey. Does not react with rat, sheep, cow and dog. Others not known.
 Positive Control: KG-1 cells, Tonsil, or Angiosarcoma
 Specificity: This antibody recognizes a single chain, transmembrane, heavily glycosylated protein of 90-120kDa, which is identified as CD34. On the basis of differential sensitivity to degradation by specific enzymes, epitopes of monoclonal antibodies to CD34 are classified into three main categories, class I, class II and class III. It is a class II antibody whose epitope is resistant to neuraminidase but sensitive to glycoprotease and chymopapain. Anti-CD34 labels > 85% of angiosarcoma and Kaposi's sarcoma, but with a lower specificity.

<u>Catalog Number</u>	<u>Volume</u>
A00070-C.1	0.1 ml
A00070-C	1 ml

CD43, T-Cell; Clone DF-T1 (Concentrate)

Species: Mouse
 Immunogen: Myeloblastic KG1 cells
 Clone: DF-T1
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Paracortex in a tonsil or a reactive lymph node.
 Specificity: This antibody recognizes a cell surface glycoprotein of 95/115/135kDa (depending upon the extent of glycosylation), identified as CD43 [Workshop IV].

<u>Catalog Number</u>	<u>Volume</u>
A00082-C.1	0.1 ml
A00082-C	1 ml

CD45, Leucocyte Common Antigen (LCA); Clones PD7/26 & 2B11 (Concentrate)

Species: Mouse
 Immunogen: Isolated neoplastic cells from T-cell lymphoma (2B11); human peripheral blood lymphocytes maintained in T-cell growth factor (PD7/26).
 Clone: 2B11 & PD7/26
 Isotype: IgG1, kappa (2B11); IgG1, kappa (PD7/26).
 Species Reactivity: Human. Others not known.
 Positive Control: Ramos, U-698, or GA-10 cells. Tonsil.
 Specificity: This antibody recognizes the CD45 leukocyte common antigen (LCA) family.

<u>Catalog Number</u>	<u>Volume</u>
A00017-C.1	0.1 ml
A00017-C	1 ml

CD45; Clone 2B11 (Concentrate)

Species: Mouse
 Clone: 2B11
 Isotype: Mouse IgG1, Kappa
 Species Reactivity: Human.
 Positive Control: Tonsil.
 Specificity: This antibody is specific for hematopoietic cells, including basophils, granulocytes, lymphocytes, macrophages / histiocytes, mast cells, monocytes, plasma cells; NOT mature red blood cells and their immediate progenitors, platelets or megakaryocytes, Dendritic cells, medullary thymocytes.

<u>Catalog Number</u>	<u>Volume</u>
A00129-C.1	0.1 ml
A00129-C	1 ml

CD45RA (LCA); Clone 158-4D3 (Concentrate)

Species: Mouse
 Clone: 158-4D3
 Isotype: Mouse IgG2a, Kappa
 Species Reactivity: Human. Others not tested.
 Positive Control: Tonsil, Spleen.
 Specificity: The CD45RA 158-4D3 antibody clone reacts with the ABC and BC isoforms (Schlossman et al, 1995). CD45RA has a molecular weight of 205-220 kDa.

<u>Catalog Number</u>	<u>Volume</u>
A00123-C	1 ml

CD45RB; Clone PD7/26 (Concentrate)

Species: Mouse
 Clone: PD7/26
 Isotype: Mouse IgG1
 Species Reactivity: Human.
 Positive Control: Tonsil.
 Specificity: This antibody is specific for hematopoietic cells, including basophils, granulocytes, lymphocytes, macrophages/histiocytes, mast cells, monocytes, plasma cells; NOT mature red blood cells and their immediate progenitors, platelets or megakaryocytes, dendritic cells, medullary thymocytes. CD45RB is highly expressed on memory B cells and plasmablasts but not on naïve B cells, Langerhans cells and some T cells, B cells, monocytes, macrophages, granulocytes.

<u>Catalog Number</u>	<u>Volume</u>
A00130-C	1 ml

CD45RO, T-Cell; Clone UCHL1 (Concentrate)

Species: Mouse Monoclonal
 Clone: UCHL1
 Isotype: IgG2a,k
 Species Reactivity: Human, Rhesus Monkey. Does not react with Rat.
 Positive Control: Tonsil or Lymph Node.

Specificity: This antibody reacts with a 180 kD glycoprotein of CD45 family, occurring on most thymocytes and activated T cells but only on the portion of the resting T cells. It reacts with most thymocytes, a subpopulation of resting cells within both the CD4 and CD8 subsets and mature activated T cells. This antibody shows no reactivity with normal B or natural killer cells, but reacts with granulocytes and monocytes. Though this antibody is useful to identify T-cell lymphomas and leukemia, rare staining with B cell lymphomas reported.

<u>Catalog Number</u>	<u>Volume</u>
A00024-C.1	0.1 ml
A00024-C	1 ml

CD56; Clone 123C3 (Concentrate)

Species: Mouse
 Clone: 123C3
 Isotype: Mouse IgG1, Kappa
 Species Reactivity: Human.
 Positive Control: Tonsil, Neuroblastoma, Pancreatic Islet cells.
 Specificity: This antibody recognizes two proteins (185kDa & 145kDa), identified as two isoforms of neural cell adhesion molecule (NCAM/CD56). It is used as a tumor marker in various cancers such as NK lymphomas and Merkel cell carcinoma. NCAM is expressed on most neuroectodermal derived lines, tissues, and neoplasms such as retinoblastoma, medulloblastoma, astrocytoma, and neuroblastoma. It is also expressed on some mesodermally derived tumors such as rhabdomyosarcoma and also on natural killer cells.

<u>Catalog Number</u>	<u>Volume</u>
A00121-C.1	0.1 ml
A00121-C	1 ml

CD57 (HNK-1); Clone NK-1 (Concentrate)

Species: Mouse
 Clone: NK-1
 Isotype: Mouse IgM, Kappa
 Species Reactivity: Human.
 Positive Control: Tonsil, spleen, lymph node.
 Specificity: The NK1 antibody clone recognizes the glycoepitope referred to as both CD57 and HNK1.

<u>Catalog Number</u>	<u>Volume</u>
A00117-C.1	0.1 ml
A00117-C	1 ml

Chromogranin A; Clones LK2H10 & PHE5 (Concentrate)

Species: Mouse
 Immunogen: Human pheochromocytoma (LK2H10 & PHE5).
 Clone: LK2H10 & PHE2
 Isotype: IgG1, Kappa (Both)
 Species Reactivity: Human, Monkey, Pig, Mouse and Rat. Others-not known
 Positive Control: PC12 cells. Adrenal gland, bowel, thyroid, pancreas, or pheochromocytoma.
 Specificity: Chromogranin A is present in neuroendocrine cells throughout the body, including the neuroendocrine cells of the large and small intestine, adrenal medulla and pancreatic islets. It is an excellent marker for carcinoid tumors, pheochromocytomas, paragangliomas, and other neuroendocrine tumors.

<u>Catalog Number</u>	<u>Volume</u>
A00160-C.1	0.1 ml
A00160-C	1 ml

Cyclin D1; Clone CCND1/3370R (Concentrate)

Species: Rabbit
 Immunogen: A synthetic peptide corresponding to residues within aa 270-295 of Cyclin D1.
 Clone: CCND1/3370R
 Isotype: IgG
 Species Reactivity: Human, Others-not known
 Positive Control: Human mantle cell lymphoma, breast or bladder carcinomas
 Cellular Localization: Nuclear
 Specificity: This antibody reacts with a 36 kD protein identified as cyclin D1.

<u>Catalog Number</u>	<u>Volume</u>
A00163-C.1	0.1 ml
A00163-C	1 ml

Cytokeratin 10; Clone DE-K10 (Concentrate)

Species: Mouse
 Immunogen: Cytoskeletal preparation extracted from human ectocervical epithelium.
 Clone: DE-K10
 Isotype: IgG1, kappa
 Species Reactivity: Human, Dog and Cat. Others not known.
 Positive Control: Esophagus or Tonsil. A431, HeLa, MCF7 cells.
 Specificity: This antibody recognizes a protein of 56.5kDa identified as Cytokeratin 10.

<u>Catalog Number</u>	<u>Volume</u>
A00089-C.1	0.1 ml
A00089-C	1 ml

Cytokeratin 19; Clone A53-B/A2.26 (Concentrate)

Species: Mouse
 Clone: A53-B/A2.26 (Ks 19.1)
 Isotype: Mouse IgG2a, Kappa
 Species Reactivity: Human. Reacts weakly with mouse, rat and guinea pig Cytokeratin 19.
 Positive Control: Skin, Breast carcinoma, Colon carcinoma, Thyroid.
 Specificity: This antibody reacts with the rod domain of human Cytokeratin 19, a polypeptide of 40kDa. The antibody recognition epitope maps between amino acid 312-335. This antibody reacts with the MCF-7 cells which are known to contain Cytokeratin 19.

<u>Catalog Number</u>	<u>Volume</u>
A00122-C.1	0.1 ml
A00122-C	1 ml

Cytokeratin 7; Clone OV-TL12/30 (Concentrate)

Species: Mouse
 Clone: OV-TL12/30
 Isotype: IgG1
 Species Reactivity: Human. Others not tested.
 Positive Control: Carinoma of Ovary, Lung, Cervix or Breast.
 Specificity: Cytokeratin 7 expression is restricted to most glandular and transitional epithelia including lung, breast, bladder and female genital tract and their adenocarcinomas, but not in most gastrointestinal epithelium, prostate, hepatocyte and squamous epithelium.

<u>Catalog Number</u>	<u>Volume</u>
A00142-C.1	0.1 ml
A00142-C	1 ml

Cytokeratin 8; Clone K8/383 (Concentrate)

Species: Mouse
 Clone: K8/383
 Isotype: IgG1
 Species Reactivity: Human, Rat. Others not tested.
 Positive Control: MCF-7 or A431 cells. Human Skin, Colon, Lung or Breast carcinoma.
 Specificity: Cytokeratin 8 Antibody belongs to the type II (or B or Basic) subfamily of high molecular weight Cytokeratins and exists in combination with Cytokeratin 18. Cytokeratin 8 is primarily found in the non-squamous epithelia and is present in a majority of adenocarcinomas and ductal carcinomas. It is absent in squamous cell carcinomas.

<u>Catalog Number</u>	<u>Volume</u>
A00136-C	1 ml

Cytokeratin, High Molecular Weight; Clone 34BE12 (Concentrate)

Species: Mouse
 Immunogen: Solubilized keratin extract from human stratum corneum
 Clone: 34BE12
 Isotype: IgG1, kappa
 Species Reactivity: Human, Mouse, and Rat. Others not known.
 Positive Control: PC12 cells, skin, prostate carcinoma.
 Specificity: This antibody recognizes CK1, CK5, CK10, and CK14. In normal epithelia, it stains stratified epithelia, myoepithelial cells, and basal cells in the prostate gland and bronchi. This antibody shows no reactivity with hepatocytes, pancreatic acinar cells, proximal renal tubules, or endometrial glands; there is no reactivity with cells derived from simple epithelia. Mesenchymal tumors, lymphomas, melanomas, neural tumors, and neuroendocrine tumors are negative with this antibody.

<u>Catalog Number</u>	<u>Volume</u>
A00071-C.1	0.1 ml
A00071-C	1 ml

Cytokeratin, Multi (Acidic); Clone AE1 (Concentrate)

Species: Mouse Monoclonal
 Clone: AE-1
 Isotype: IgG1
 MW: 56.5, 50, 50', 48 and 40 kD
 Species Reactivity: Human, Monkey, Cow, Rabbit, Mouse, Rat, Chicken. Others not tested.
 Positive Control: Human epidermal keratin or carcinoma. HT29 cells.
 Specificity: Monoclonal antibody AE1 recognizes the 56.5, 50, 50', 48, and 40kDa keratins of the acidic subfamily. Twenty human keratins are resolved with two-dimensional gel electrophoresis into acidic (pI<5.7) and basic (pI>6.0) subfamilies. The acidic keratins have molecular weights of 56.5, 55, 51, 50, 50', 48, 46, 45, and 40kDa.

<u>Catalog Number</u>	<u>Volume</u>
A00051-C.1	0.1 ml
A00051-C	1 ml

Cytokeratin, Multi (Basic); Clone AE-3 (Concentrate)

Species: Mouse
 Immunogen: Human epidermal keratin
 Clone: AE-3
 Isotype: IgG1, kappa
 Species Reactivity: Human, Monkey, Cow, Dog, Rabbit, Mouse, Rat, Chicken. Others not known.
 Positive Control: Epithelial cells, skin or adenocarcinomas.
 Specificity: This antibody recognizes basic (Type II or HMW) cytokeratins, which include 67kDa (CK1); 64kDa (CK3); 59kDa (CK4); 58kDa (CK5); 56kDa (CK6); 52kDa (CK8).

<u>Catalog Number</u>	<u>Volume</u>
A00052-C.1	0.1 ml
A00052-C	1 ml

Cytokeratin, Pan; Clones AE1 & AE3 (Concentrate)

Species: Mouse
 Immunogen: Human epidermal keratin
 Clone: AE-1 & AE-3
 Isotype: IgG1, kappa (AE-1); IgG1, kappa (AE-3)
 Species Reactivity: Human, Monkey, Cow, Dog, Rabbit, Mouse, Rat, Chicken. Others not known.
 Positive Control: Skin, Adeno- or Squamous carcinomas.
 Specificity: This antibody cocktail recognizes acidic (Type I or LMW) and basic (Type II or HMW) cytokeratins, which include 67kDa (CK1); 64kDa (CK3); 59kDa (CK4); 58kDa (CK5); 56kDa (CK6); 52kDa (CK8); 56.5kDa (CK10); 50kDa (CK14); 50kDa (CK15); 48kDa (CK16); 40kDa (CK19). This antibody stains cytokeratins present in normal and abnormal human tissues and has shown high sensitivity in the recognition of epithelial cells and carcinomas.

<u>Catalog Number</u>	<u>Volume</u>
A00152-C.1	0.1 ml
A00152-C	1 ml

Desmin; Clone D33 (Concentrate)

Species: Mouse
 Immunogen: Proteins from human Leiomyoma.
 Clone: D33
 Isotype: IgG1, kappa
 Species Reactivity: Human, Rat, Mouse, Hamster, Chicken. Others not known.
 Positive Control: Muscle, Uterus, Leiomyosarcoma or SJRH30 cells.
 Specificity: Desmin, Clone D33 detects cells of normal smooth, skeletal, and cardiac muscles. This antibody reacts with leiomyomas, leiomyosarcoma, rhabdomyomas, rhabdomyosarcoma, and perivascular cells of glomus tumors of the skin.

<u>Catalog Number</u>	<u>Volume</u>
A00007-C.1	0.1 ml
A00007-C	1 ml

Epithelial Membrane Antigen; Clone E29 (Concentrate)

Species: Mouse
 Immunogen: Delipidated extract of human milk fat globule membranes
 Clone: E29
 Isotype: IgG2a, kappa
 Species Reactivity: Human. Reacts moderately with Pig and Dog. Others not known.
 Positive Control: MCF-7 or MDA-231 cells. Breast or colon carcinoma.
 Specificity: In Western blotting, this antibody recognizes proteins in a MW range of 265-400kDa, identified as different glycoforms of EMA (MUC1). This antibody reacts with the DTRP epitope within the tandem repeats. In immunohistochemical assays, it superbly stains routine formalin/paraffin carcinoma tissues. An antibody to EMA (MUC1) is useful as a pan-epithelial marker for detecting early metastatic loci of carcinoma in bone marrow or liver.

<u>Catalog Number</u>	<u>Volume</u>
A00008-C.1	0.1 ml
A00008-C	1 ml

GFAP; Clone ASTRO/789 (Concentrate)

Species: Mouse
 Immunogen: Recombinant GFAP protein
 Clone: ASTRO/789
 Isotype: IgG1
 Species Reactivity: Human, Mouse, Rat, Cow, Pig, Rabbit, and Chicken. Others not known.
 Positive Control: Brain or Astrocytoma.
 Specificity: This antibody recognizes a protein of ~50kDa which is identified as Glial Fibrillary Acidic Protein (GFAP). It shows no cross-reaction with other intermediate filament proteins.

<u>Catalog Number</u>	<u>Volume</u>
A00158-C.1	0.1 ml
A00158-C	1 ml

Glial Fibrillary Acidic Protein (GFAP); Clone GA-5 (Concentrate)

Species: Mouse
 Immunogen: Porcine Spinal Chord
 Mol. Weight: 51-52kDa
 Clone: GA-5
 Isotype: IgG1
 Species Reactivity: Human, Pig, Rat, and Chicken. Others not tested.
 Positive Control: IMR5, Brain, or Astrocytoma.
 Cellular Localization: Cytoplasmic.

Specificity: Glial Fibrillary Acidic Protein (GFAP) is specific to astrocytes and ependymal cells of the central nervous system. This product effectively stains astrocytes, glial cells, ependymal cells and their associated tumors.

<u>Catalog Number</u>	<u>Volume</u>
A00102-C.1	0.1 ml
A00102-C	1 ml

Insulin; Clone 2D11-H5 (Concentrate)

Species: Mouse
 Clone: 2D11-H5
 Isotype: Mouse IgG1, Kappa
 Species Reactivity: Human, Pig, Cow.
 Positive Control: Pancreatic tissue.
 Specificity: Detects insulin and insulin producing cells.

<u>Catalog Number</u>	<u>Volume</u>
A00114-C	1 ml

Kappa; Clone L1C1 (Concentrate)

Species: Mouse
 Clone: L1C1
 Isotype: Mouse IgG1, Kappa
 Species Reactivity: Human.
 Positive Control: Tonsil.
 Specificity: The kappa light chain antibody recognizes the kappa light chain of immunoglobulin.

<u>Catalog Number</u>	<u>Volume</u>
A00113-C.1	0.1 ml
A00113-C	1 ml

Lambda Light Chain; Clone LcN-2 (Concentrate)

Species: Mouse
 Immunogen: Purified human IgG
 Clone: LcN-2
 Isotype: IgG2a, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.
 Specificity: This monoclonal antibody is specific to the lambda light chain of immunoglobulins and shows no cross-reaction with the kappa light chain or any of the five heavy chains.

<u>Catalog Number</u>	<u>Volume</u>
A00155-C.1	0.1 ml
A00155-C	1 ml

MART-1; Clone M2-7C10 (Concentrate)

Species: Mouse
 Clone: M2-7C10
 Isotype: Mouse IgG2b, Kappa
 Species Reactivity: Human. Clone M2-7C10 does not react with mouse or rat.
 Positive Control: Metastatic melanoma in lymph nodes.
 Specificity: The clone M2-7C10 MART-1 antibody labels melanomas and other tumors showing melanocyte differentiation.

<u>Catalog Number</u>	<u>Volume</u>
A00115-C	1 ml

MART-1; Clone M2-9E3 (Concentrate)

Species: Mouse
 Clone: M2-9E3
 Isotype: Mouse IgG2b, Kappa
 Species Reactivity: Human, Mouse, Rat.
 Positive Control: Metastatic melanoma in lymph nodes.
 Specificity: The clone M2-9E2 MART-1 antibody labels melanomas and other tumors showing melanocyte differentiation.

<u>Catalog Number</u>	<u>Volume</u>
A00116-C	1 ml

MART-1; Clones M2-7C10 & M2-9E3 (Concentrate)

Species: Mouse
 Clones: M2-7C10 & M2-9E3
 Isotype: Mouse IgG2b, kappa
 Species Reactivity: Human.
 Positive Control: Human Melanoma.
 Specificity: MART-1 has been shown to be a very specific marker for melanomas.

<u>Catalog Number</u>	<u>Volume</u>
A00133-C.1	0.1 ml
A00133-C	1 ml

Melanoma Associated Antigen; Clone KBA.62 (Concentrate)

Species: Mouse
 Immunogen: Human KAL cells derived from lymph node metastasis of malignant melanoma
 Clone: KBA.62
 Isotype: IgG1, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: Melanoma
 Cellular Localization: Cell Surface
 Specificity: KBA.62 is a novel anti-melanoma antibody. It reacts positively against melanocytic tumors but not against other tumors, thus demonstrating specificity and sensitivity. Moreover, it reacts positively against junctional nevus cells but not intradermal nevi, and against fetal melanocytes but not normal adult melanocytes.

<u>Catalog Number</u>	<u>Volume</u>
A00153-C.1	0.1 ml
A00153-C	1 ml

Melanoma; Clone HMB45 (Concentrate)

Species: Mouse
 Clone: HMB45
 Isotype: Mouse IgG1/ Kappa
 Species Reactivity: Human. Does not react with dog and rat.
 Positive Control: Human Melanoma
 Specificity: HMB45 has been shown to be a very specific marker for melanomas.

<u>Catalog Number</u>	<u>Volume</u>
A00019-C	1 ml

Melanoma; Pan (Concentrate)

Species: Mouse
 Clones: MART-1; Clone M2-7C10, MART-1; Clone M2-9E3, Tyrosinase; Clone T311, Melanoma: HMB45.
 Isotype: Mouse IgG1
 Species Reactivity: Human.
 Positive Control: Human Melanoma
 Specificity: Melanoma; Pan is a broad spectrum marker for metastatic melanoma.

<u>Catalog Number</u>	<u>Volume</u>
A00134-C.1	0.1 ml
A00134-C	1 ml

MIC2 Gene Protein, CD99; Clone HO36-1.1 (Concentrate)

Species: Mouse
 Immunogen: Purified E-rosette forming cells from human peripheral blood lymphocytes.
 Clone: HO36-1.1
 Isotype: IgM, Kappa.
 Species Reactivity: Human and Rat. Others-not known
 Positive Control: Pancreas or Ewing's sarcoma.
 Specificity: Recognizes a sialoglycoprotein of 27-32kDa, identified as CD99, MIC2 gene product, or E2 antigen. This antibody shows a very similar reactivity to other CD99 antibodies (e.g. O13, 12E7, or HBA-71) and is excellent for immunohistochemical staining of formalin-fixed, paraffin-embedded tissues.

<u>Catalog Number</u>	<u>Volume</u>
A00044-C.1	0.1 ml
A00044-C	1 ml

MSH6; Clone MSH6/3091 (Concentrate)

Species: Mouse
 Immunogen: Recombinant fragment of human MSH6 protein (around aa 374-540) (exact sequence is proprietary).
 Clone: MSH6/3091
 Isotype: IgG2b, Kappa
 Species Reactivity: Human, Others-not known
 Positive Control: HCT116, MCF-7 cells, Human colon carcinoma (IHC).
 Specificity: This antibody reacts with a 163kDa protein identified as MSH6. Positive staining for MSH6 is seen in the nuclei of colon carcinomas, stromal cells and lymphocytes.
 Cellular Localization: Nuclear

<u>Catalog Number</u>	<u>Volume</u>
A00162-C.1	0.1 ml
A00162-C	1 ml

MUC5AC (Gastric Mucin); Clone 45M1 (Concentrate)

Species: Mouse
 Clone: 45M1
 Isotype: Mouse IgG1, Kappa
 Species Reactivity: Human, Monkey, Cat, Chicken, Hedgehog, Mouse, Pig, Rabbit, Rat. Does not react with cow.
 Positive Control: Stomach.
 Specificity: MUC5AC is expressed in airway and gastric epithelial cells and highly expressed in colorectal carcinomas.

<u>Catalog Number</u>	<u>Volume</u>
A00124-C.1	0.1 ml
A00124-C	1 ml

Napsin A; Clones NAPSA/1238 & NAPSA/1239 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human Napsin-A protein fragment (aa 189-299). Exact sequence is proprietary.
 Clones: NAPSA/1238 & NAPSA/1239
 Isotype: IgG1, Kappa
 Species Reactivity: Human. Others not tested.
 Positive Control: Lung adenocarcinoma.
 Specificity: This antibody is specific for a pepsin-like aspartic proteinase identified as Napsin A.

<u>Catalog Number</u>	<u>Volume</u>
A00131-C.1	0.1 ml
A00131-C	1 ml

Neurofilament (H&L); Clone 2F11 (Concentrate)

Species: Mouse
 Clone: 2F11
 Isotype: IgG1, Kappa
 Species Reactivity: Human, Rabbit, Cat, Mouse and Rat. Does not react with dog.
 Positive Control: Brain

Specificity: This antibody stains neurons (axons) of the central and peripheral nervous system. It is useful for the identification of tumors with neuronal differentiation viz. Neuroblastomas, Ganglioneuromas, Pheochromocytomas and Esthesioblastomas. The antibody cross-reacts with the NF-equivalent protein in mouse, rabbit, rat and swine. The antibody can also be utilized to discriminate between Hirschsprung's disease and allied enteric nervous system malformations.

<u>Catalog Number</u>	<u>Volume</u>
A00020-C.1	0.1 ml
A00020-C	1 ml

Neurofilament; Clone NFL/736 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human NEFL protein.
 Clone: NFL/736
 Isotype: IgG1, Kappa
 Species Reactivity: Human, Rat, Pig, Cow, and Chicken. Others-not known
 Positive Control: HEK293 cells, Brain, Neuroblastoma
 Specificity: This antibody reacts with a 68 kDa protein, identified as light sub-unit of neurofilaments (NF-L). This antibody stains a number of neural, neuroendocrine, and endocrine tumors. In addition, Neuromas, ganglioneuromas, gangliogliomas, and neuroblastomas stain positively for anti-neurofilament.

<u>Catalog Number</u>	<u>Volume</u>
A00165-C.1	0.1 ml
A00165-C	1 ml

Neurofilament; Clone NR-4 (Concentrate)

Species: Mouse
 Immunogen: Crude neurofilament preparation from porcine spinal cord.
 Clone: NR-4
 Isotype: IgG1, Kappa
 Species Reactivity: Human, Rat, Pig, Cow, Chicken. Others-not known
 Positive Control: HEK293 cells, Brain, Neuroblastoma.
 Specificity: This antibody reacts with a 68kDa protein, identified as light sub-unit of neurofilaments (NF-L). This antibody stains a number of neural, neuroendocrine, and endocrine tumors. Neuromas, ganglioneuromas, gangliogliomas, ganglioneuroblastomas, and neuroblastomas stain positively for anti-neurofilament. Neurofilaments are also present in paragangliomas as well as adrenal and extra-adrenal pheochromocytomas. Carcinoids, neuroendocrine carcinomas of the skin, and oat cell carcinomas of the lung also express neurofilament.

<u>Catalog Number</u>	<u>Volume</u>
A00166-C.1	0.1 ml
A00166-C	1 ml

p21WAF1; Clone CIP1/4377R (Concentrate)

Species: Rabbit
 Immunogen: Synthetic peptide corresponding to p21 residues within aa1-100 of p21 was used as an immunogen.
 Clone: CIP1/4377R
 Isotype: IgG
 Species Reactivity: Human, Others-not known
 Positive Control: HeLa cells. Skin, Colon, or Breast Carcinoma.
 Specificity: This antibody reacts with a 21kDa protein, identified as the p21WAF1 tumor suppressor protein. This antibody is highly specific to p21 and shows no cross-reaction with other closely related mitotic inhibitors.

<u>Catalog Number</u>	<u>Volume</u>
A00167-C.1	0.1 ml
A00167-C	1 ml

p21WAF1; Clone WA-1 (Concentrate)

Species: Mouse
 Clone: WA-1
 Isotype: Mouse IgG1, Kappa
 Species Reactivity: Human.
 Positive Control: Colon Carcinoma.
 Specificity: The antibody is highly specific to p21; it does not cross-react with other closely related mitotic inhibitors. Specificity validations include antibody recognition of recombinant p21 by western blot (Koike, 2011) and in direct ELISA assays (Rossner, 2002 & 2007). Although the exact epitope for the antibody has not been mapped, the epitope appears to be different from those recognize by other p21 antibody clones.

<u>Catalog Number</u>	<u>Volume</u>
A00125-C.1	0.1 ml
A00125-C	1 ml

p53; Clone BP53-12 (Concentrate)

Species: Mouse
 Clone: BP53-12
 Isotype: IgG2a, Kappa
 Species Reactivity: Human. Will not cross-react with mouse or rat.
 Cellular Localization: Nuclear.
 Specificity: This p53 antibody recognizes a 53kDa protein, which is identified as p53 suppressor gene product. The antibody reacts with the mutant as well as the wild form of p53 under denaturing and non-denaturing conditions. The epitope maps within the N-terminus (aa 20-25) of p53 oncoprotein.

<u>Catalog Number</u>	<u>Volume</u>
A00109-C.1	0.1 ml
A00109-C	1 ml

Placental Alkaline Phosphatase (PLAP); Clone ALP/870 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human PLAP protein
 Clone: ALP/870
 Isotype: IgG2b, kappa
 Species Reactivity: Human. Others not known.
 Positive Control: HepG2 cells. Placenta or seminoma.
 Specificity: Reacts with a 70kDa membrane-bound isozyme (Regan and Nagao type) of Placental Alkaline Phosphatase (PLAP) occurring in the placenta during the 3rd trimester of gestation. It is highly specific for PLAP and shows no cross-reaction with other isozymes of alkaline phosphatase.

<u>Catalog Number</u>	<u>Volume</u>
A00154-C.1	0.1 ml

S-100; Clone 4C4.9 (Concentrate)

Species: Mouse Monoclonal
 Clone: 4C4.9
 Isotype: IgG2a
 MW: 21-24 kD
 Species Reactivity: Human, Cow, Mouse
 Positive Control: Melanoma or Schwannoma.

Specificity: Recognizes proteins of 21-24kDa, identified as the A and B subunits of S100 protein. S100 belongs to the family of calcium binding proteins such as calmodulin and troponin C. S100A is composed of an alpha and beta chain whereas S100B is composed of two beta chains. Antibody to S100 stains Schwannomas, ependymomas, astroglomas, almost all benign and malignant melanomas and their metastases. S100 protein is also expressed in the antigen presenting cells such as the Langerhans cells in skin and interdigitating reticulum cells in the paracortex of lymph nodes. S100 protein is highly soluble and may be eluted from frozen tissue during staining.

<u>Catalog Number</u>	<u>Volume</u>
A00087-C.1	0.1 ml
A00087-C	1 ml

Secretory Component; Clone SC05 (Concentrate)

Species: Mouse
 Clone: SC05
 Isotype: IgG1, Kappa
 Species Reactivity: Human, Rat. Others not tested.
 Positive Control: Breast carcinoma, Lung, Stomach.
 Specificity: This antibody reacts with both free and bound secretory component to secretory IgA.

<u>Catalog Number</u>	<u>Volume</u>
A00127-C	1 ml

SOX10; Clone SOX10/991 (Concentrate)

Species: Mouse
 Immunogen: Recombinant human SOX10 protein fragment (aa115-269) (exact sequence is proprietary).
 Clone: SOX10/991
 Isotype: IgG2b, Kappa.
 Species Reactivity: Human and Mouse. Others-not known.
 Positive Control: HepG2 cells, Melanoma, breast carcinomas, gliomas.
 Specificity: Recognizes a protein of ~55kDa, identified as SOX10. This antibody does not cross-react with other members of the SOX-family.

<u>Catalog Number</u>	<u>Volume</u>
A00161-C.1	0.1 ml
A00161-C	1 ml

Thyroglobulin; Clone 2H11 (Concentrate)

Species: Mouse
 Clone: 2H11
 Isotype: IgG1, Kappa
 Species Reactivity: Human
 Cellular Localization: Cytoplasmic
 Specificity: Thyroglobulin is a 660 kDa dimeric preprotein with multiple glycosylation sites is produced by and processed within the thyroid gland to produce the hormone thyroxine and triiodothyronine. Prior to forming dimers, thyroglobulin monomers undergo conformation maturation in the endoplasmic reticulum. Thyroglobulin dimerization as well as transport of thyroglobulin to the Golgi complex is calcium dependent. Thyroglobulin defects resulting from defective dimer formation and export to the Golgi is thought to cause some types of goiter. Antibody against thyroglobulin may be produced by individuals with other diseases arising from the gland such as Hashimoto's or Graves disease. Hence the presence of thyroglobulin autoantibodies can help to identify disease. Antibody to thyroglobulin has been shown to be useful for the identification of papillary and follicular thyroid carcinoma; thyroglobulin antibody positive lesions are of thyroidal origin. Carcinomas of nonthyroidal origin do not express thyroglobulin and hence are thyroglobulin antibody negative. It is important to note though that not every type of thyroidal lesion is thyroglobulin antibody positive, a number of forms are negative. Hence a negative result does not necessarily rule out that a given lesion or metastasis originated from the thyroid gland.

<u>Catalog Number</u>	<u>Volume</u>
A00108-C	1 ml

TTF-1; Clone 8G7G3/1 (Concentrate)

Species: Mouse
 Designation: Mouse Monoclonal
 Clone: 8G7G3/1
 Isotype: IgG1
 Species Reactivity: Human. Others not tested.
 Positive Control: Adenocarcinoma of the Lung or Thyroid.
 Specificity: This antibody reacts with TTF-1 protein found in adenocarcinomas of the lung and tumors originating in the thyroid. TTF-1 positive cells are found in Type II pneumocytes and Clara cells in the lung. In the thyroid, follicular and parafollicular cells are positive. In lung cancers, Adenocarcinomas are usually positive, while Squamous Cell Carcinomas and Large Cell Carcinomas are rarely positive. In addition, Small-Cell Carcinomas (of any primary site) are usually positive.

<u>Catalog Number</u>	<u>Volume</u>
A00144-C.1	0.1 ml
A00144-C	1 ml

Tyrosinase; Clone T311 (Concentrate)

Species: Mouse
 Clone: T311
 Isotype: Mouse IgG1
 Species Reactivity: Human.
 Positive Control: Human Melanoma
 Specificity: Tyrosinase has been shown to be a very specific marker for melanomas, not cross reacting with other tumors or normal tissues tested.

<u>Catalog Number</u>	<u>Volume</u>
A00132-C	1 ml

Uchl1 (PGP9.5); Clone 31A3 (Concentrate)

Species: Mouse
 Clone: 31A3
 Isotype: Mouse IgG1, Kappa
 Species Reactivity: Cow, Human, Mouse, Pig, Rat.
 Positive Control: Brain.
 Specificity: The Uchl1 clone 31A3 antibody stains neuronal cell bodies and axons in the central and peripheral nervous systems as well as small nerve fibers in peripheral tissues, including epidermal tissues (Day & Thompson, 2010). The antibody also stains neuroendocrine cells in the kidney, pituitary, thyroid, pancreas, gastrointestinal tract, and tumors of the diffuse neuroendocrine system. This antibody has also identified Uchl1 expression in renal tubule spermatogonia, testis, ovary, and both pregnant and non-pregnant corpus luteum.

<u>Catalog Number</u>	<u>Volume</u>
A00120-C	1 ml

Vimentin; Clone V9 (Concentrate)

Species: Mouse

Immunogen: Porcine eye lens.

Clone: V9

Isotype: IgG1, Kappa.

Format: 200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide.

Specificity: This antibody reacts with a 58kDa protein identified as vimentin. It shows no cross-reactivity with other closely related intermediate filament proteins such as desmin, keratin, neurofilament, and glial fibrillary acid protein.

Species Reactivity: Reacts with Human, Rat, Horse, Chicken, Cow, Cat, Dog, and Pig. Does not react with Mouse.

Positive Control: U-87, Raji, Jurkat or HeLa cells. Lymph node or tonsil.

Cellular Localization: Cytoplasmic

<u>Catalog Number</u>	<u>Volume</u>
A00045-C.1	0.1 ml
A00045-C	1 ml

Multiplex Cocktail**CDX-2 & CEA Multiplex Cocktail; Clones EP25 & COL-1 (Ready-To-Use)**

Species: Rabbit and Mouse

Designation: Cocktail of Rabbit and Mouse Monoclonal Antibodies to CDX-2 and CEA.

Immunogen: Rabbits were injected with a synthetic peptide corresponding to residues near the C-terminus of human CDX-2. BALB/C mice were injected with Human colon carcinoma cell extracts (CEA).

Mol. Weight: Unknown

Clone: EP25 & COL-1

Isotype: Rabbit IgG and Mouse IgG1, respectively.

Species Reactivity: Human

Positive Control: CDX-2: Colon for normal tissue and colon adenocarcinoma for abnormal tissue.

CEA: Adenocarcinoma of colon, intestine, ovary, lung, cervix, gallbladder, stomach.

Specificity: CDX-2 expression is restricted to nuclear staining in positive cells while CEA expression is restricted mostly to the lumen of colorectal crypts. The CEA antibody (COL-1) shows no reaction with a variety of normal tissues. CEA is not found in benign glands, stroma, or malignant prostatic cells. CEA positivity is seen in adenocarcinomas from the lung, colon, stomach, esophagus, gallbladder, urachus, salivary gland, ovary, and endocervix.

<u>Catalog Number</u>	<u>Volume</u>
A00150-0002	2 ml
A00150-0007	7 ml
A00150-0025	25 ml

CDX2 & Cytokeratin 7 Multiplex Cocktail; Clones EP25 & OV-TL12/30 (Ready-To-Use)

Species: Rabbit and Mouse

Designation: Cocktail of Rabbit and Mouse monoclonal antibodies to CDX-2 and CK7.

Immunogen: Rabbits were injected with a synthetic peptide corresponding to residues near the C-terminus of human CDX-2. BALB/C mice were injected with OTN11-ovarian cell carcinoma cell line.

Mol. Weight: Unknown

Clone: Clones EP25 and OV-TL12/30

Isotype: Rabbit IgG and Mouse IgG1, respectively.

Species Reactivity: Human

Positive Control: CDX-2: Colon for normal tissue and colon adenocarcinoma for abnormal tissue.

CK7: Carcinoma of ovary, lung, cervix, or breast.

Specificity: CDX-2 expression is restricted to nuclear staining in positive cells while CK7 expression is restricted to most glandular and transitional epithelia including lung, breast, bladder, and the female genital tract and their adenocarcinomas, but not in most gastrointestinal epithelium, prostate, hepatocyte, and squamous epithelium.

<u>Catalog Number</u>	<u>Volume</u>
A00148-0002	2 ml
A00148-0007	7 ml
A00148-0025	25 ml

TTF-1 & Cytokeratin 5 Multiplex Cocktail; Clones 8G7G3/1 & EP42 (Ready-To-Use)

Species: Mouse & Rabbit

Designation: Mouse Monoclonal & Rabbit Monoclonal

Clones: 8G7G3/1 & EP42

Isotype: IgG1 & IgG

Species Reactivity: Human. Others not tested.

Positive Control: Adenocarcinoma of the Lung or Thyroid for TTF-1. Skin for normal tissue and Mesothelioma for abnormal tissue for Cytokeratin 5.

Principle: Multiplex IHC staining allows simultaneous testing of two or more analytes on a single tissue section utilizing different colors for each antigenic target.

Specificity: This antibody reacts with TTF-1 protein found in adenocarcinomas of the lung and tumors originating in the thyroid. TTF-1 positive cells are found in Type II pneumocytes and Clara cells in the lung. In the thyroid, follicular and parafollicular cells are positive. In lung cancers, Adenocarcinomas are usually positive, while Squamous Cell Carcinomas and Large Cell Carcinomas are rarely positive. In addition, Small-Cell Carcinomas (of any primary site) are usually positive.

Cytokeratin 5 is expressed in many non-keratinizing stratified squamous epithelia including: basal epithelia, hair follicles, trachea, tongue mucosa, as well as basal cells in prostate glands and myoepithelial cells in mammary glands. Cytokeratin 5 protein is also found in most epithelial and bispasic mesotheliomas, large cell carcinoma and pulmonary squamous cell carcinomas.

This Multiplex cocktail of TTF-1 and Cytokeratin 5 produces two-color high contrast staining for differentiating primary adenocarcinoma of the Lung from Metastatic Carcinomas of the breast and Malignant Mesothelioma.

<u>Catalog Number</u>	<u>Volume</u>
A00145-0002	2 ml
A00145-0007	7 ml
A00145-0025	25 ml

Polyclonal Ready-to-Use

Alpha1-Antichymotrypsin; Polyclonal (Ready-To-Use)

Species: Rabbit Polyclonal

Clone: Polyclonal

Species Reactivity: Human. Shows no cross-reactivity with horse, sheep, swine, goat, cow, dog, cat, chicken, rat, mouse, mink, kangaroo or Guinea pig.

Positive Control: Tonsil

Specificity: This antibody recognizes macrophages and monocytes in human colon, tonsil and skin.

<u>Catalog Number</u>	<u>Volume</u>
A00073-0002	2 ml
A00073-0007	7 ml
A00073-0025	25 ml

Alpha1-Antitrypsin; Polyclonal (Ready-To-Use)

Species: Rabbit

Clone: Polyclonal

Species Reactivity: Human and Swine. Stains weakly with horse, dog and mink, and shows no cross-reactivity with sheep, goat, cow, cat, chicken, rat, mouse, kangaroo or Guinea pig.

Positive Control: Tonsil

Specificity: This antibody recognizes macrophages in human colon and tonsil.

<u>Catalog Number</u>	<u>Volume</u>
A00074-0002	2 ml
A00074-0007	7 ml
A00074-0025	25 ml

Alpha-1-Fetoprotein (AFP); Polyclonal (Ready-To-Use)

Species: Rabbit Polyclonal

Clone: Polyclonal

Species Reactivity: Human

Specificity: This antibody reacts with alpha-1-fetoprotein. A positive staining in the hepatocytes of fetal tissue was observed. This antibody does not react with other cell or tissue types.

<u>Catalog Number</u>	<u>Volume</u>
A00058-0002	2 ml
A00058-0007	7 ml
A00058-0025	25 ml

CD3, T-Cell; Polyclonal (Ready-To-Use)

Species: Rabbit

Clone: Polyclonal

Species Reactivity: Human

Positive Control: Tonsil

Specificity: This antibody reacts with intracytoplasmic portion of the CD3 antigen on the T cells. It stains T cells in cortex as well as medulla of the thymus and lymphoid tissues. This antibody also labels T cell neoplasm, malignant histiocytes and in Hodgkin's disease.

<u>Catalog Number</u>	<u>Volume</u>
A00030-0002	2 ml
A00030-0007	7 ml
A00030-0025	25 ml

Factor VIII Related Antigen; Polyclonal (Ready-To-Use)

Species: Rabbit Polyclonal

Clone: Polyclonal

MW: 270 kD

Species Reactivity: Human

Positive Control: Blood vessels in skin or intestine

Specificity: Recognizes a multimeric glycoprotein of 270kDa, identified as factor VIII related antigen or von Willebrand factor. This protein has functional binding domains to platelet glycoprotein Ib, glycoprotein IIb/IIIa, collagen and heparin. Von Willebrand factor is synthesized by endothelial cells and stored in the Weibel-Palade granules. It mediates platelet adhesion to injured vessel walls and serves as a carrier and stabilizer for coagulation factor VIII. ScyTek's antibody reacts specifically with the endothelial cells of normal, reactive, and neoplastic blood and lymphatic vessels and shows a finely granular cytoplasmic staining. It also reacts with endocardium, platelets and megakaryocytes. Von Willebrand factor is one of the most useful markers to identify endothelial (or megakaryocytic) lineage of neoplasms. However, because not all endothelial cells synthesize (or store) this molecule, about 30% of tumors of vascular origin fail to stain for factor VIII related antigen, regardless of whether they are benign or malignant.

<u>Catalog Number</u>	<u>Volume</u>
A00059-0002	2 ml
A00059-0007	7 ml
A00059-0025	25 ml

Hepatitis B Core Antigen (HBcAg); Polyclonal (Ready-To-Use)

Species: Rabbit Polyclonal

Clone: Polyclonal

Species Reactivity: Human

Specificity: This antibody reacts in the nuclei of the liver cells of the Hepatitis type B virus infected patients. However, occasional staining may also be seen in the perinuclear cytoplasm of the infected cells.

<u>Catalog Number</u>	<u>Volume</u>
A00060-0002	2 ml
A00060-0007	7 ml
A00060-0025	25 ml

IgA; Polyclonal (Ready-To-Use)

Species: Rabbit Polyclonal
 Clone: Polyclonal
 Species Reactivity: Human

Specificity: This antibody reacts with alpha-chains of human Ig A. This antibody has been absorbed to a very high level of specificity.

<u>Catalog Number</u>	<u>Volume</u>
A00061-0002	2 ml
A00061-0007	7 ml
A00061-0025	25 ml

IgG; Polyclonal (Ready-To-Use)

Species: Rabbit Polyclonal
 Clone: Polyclonal
 Species Reactivity: Human

Specificity: This antibody reacts with gamma-chains of human IgA. Nonspecific antibodies have been removed by solid-phase absorption.

<u>Catalog Number</u>	<u>Volume</u>
A00062-0002	2 ml
A00062-0007	7 ml
A00062-0025	25 ml

IgM; Polyclonal (Ready-To-Use)

Species: Rabbit Polyclonal
 Clone: Polyclonal
 Species Reactivity: Human

Specificity: This antibody reacts with the m chains of human IgM. Nonspecific antibodies have been removed by solid-phase absorption.

<u>Catalog Number</u>	<u>Volume</u>
A00063-0002	2 ml
A00063-0007	7 ml
A00063-0025	25 ml

Kappa Light Chain; Polyclonal (Ready-To-Use)

Species: Rabbit Polyclonal
 Clone: Polyclonal
 Species Reactivity: Human

Specificity: This antibody reacts with free as well as bound kappa light chains. Contaminating antibodies have been removed by solid phase absorption.

<u>Catalog Number</u>	<u>Volume</u>
A00064-0002	2 ml
A00064-0007	7 ml
A00064-0025	25 ml

Ki-67 Antigen; Polyclonal (Ready-To-Use)

Species: Rabbit
 Immunogen: Synthetic peptide from 62 base pair region of the human Ki-67 antigen.
 Clone: Polyclonal
 Species Reactivity: Human.

Positive Control: Tonsil or Breast Carcinoma.

Specificity: This antibody reacts with a nuclear antigen present in proliferating human cells.

<u>Catalog Number</u>	<u>Volume</u>
A00095-0002	2 ml
A00095-0007	7 ml
A00095-0025	25 ml

Lambda, Light Chains; Polyclonal (Ready-To-Use)

Species: Rabbit
 Immunogen: Lambda light chain isolated from pooled urine of patients with Bence Jones proteinuria.

Clone: Polyclonal

Isotype: N/A

Species Reactivity: Human

Positive Control: Tonsil

Specificity: This antibody reacts with free as well as bound lambda light chains. Contaminating antibodies have been removed by solid phase absorption.

<u>Catalog Number</u>	<u>Volume</u>
A00065-0002	2 ml
A00065-0007	7 ml
A00065-0025	25 ml

Lysozyme (Muramidase); Polyclonal (Ready-To-Use)

Species: Rabbit Polyclonal
 Clone: Polyclonal
 Species Reactivity: Human, Baboon, Monkey, Pig, Cat, Dog, Mouse and Rat.
 Positive Control: Tonsil, colon or skin

Specificity: This polyclonal antibody recognizes a protein, identified as lysozyme, also known as muramidase. This antibody was adsorbed with human plasma and urine proteins to remove the cross-reacting antibodies. Lysozymes synthesized predominantly in reactive histiocytes rather than in resting, unstimulated phagocytes. It labels myeloid cells, histiocytes, granulocytes, macrophages, and monocytes. This antibody is helpful in the identification of myeloid or monocytic nature of acute leukemia.

<u>Catalog Number</u>	<u>Volume</u>
A00033-0002	2 ml
A00033-0007	7 ml
A00033-0025	25 ml

Myoglobin; Polyclonal (Ready-To-Use)

Species: Rabbit Polyclonal
 Clone: Polyclonal
 Species Reactivity: Human

Specificity: This antibody reacts with human myoglobin. The antibody stains strongly with the skeletal and cardiac muscles. No non-specific staining with other tissues has been observed.

<u>Catalog Number</u>	<u>Volume</u>
A00066-0002	2 ml
A00066-0007	7 ml
A00066-0025	25 ml

p40 (DeltaNp63); Polyclonal (Ready-To-Use)

Species: Rabbit
 Clone: Polyclonal
 Isotype: Rabbit IgG
 Species Reactivity: Human.
 Cellular Localization: Nuclear.

Specificity: The new marker p40 (DeltaNp63) is highly specific for squamous basal cells.

<u>Catalog Number</u>	<u>Volume</u>
A00112-0002	2 ml
A00112-0007	7 ml
A00112-0025	25 ml

S-100; Polyclonal (Ready-To-Use)

Species: Rabbit
 Immunogen: Recombinant full-length human S100B protein.
 Clone: Polyclonal
 Isotype: IgG

Species Reactivity: Human, Mouse, Rat and Cow. Others-not known

Positive Control: Melanoma, Schwannoma or Brain.

Specificity: S-100 belongs to the family of calcium binding proteins. S-100A and S-100B proteins are two members of the S-100 family. S-100A is composed of an alpha and beta chain whereas S-100B is composed of two beta chains. This antibody is specific to an epitope located on the beta-chain (i.e. in S-100A and S-100B) but not on the alpha-chain of S-100 (i.e. in S-100A and S-100A0). This antibody can be used to localize S-100A and S-100B in various tissue sections. S-100 protein has been found in normal melanocytes, Langerhans cells, histiocytes, chondrocytes, lipocytes, skeletal and cardiac muscle, Schwann cells, epithelial and myoepithelial cells of the breast, salivary and sweat glands, as well as in glial cells. Neoplasms derived from these cells also express S-100 protein, albeit non-uniformly. A large number of well-differentiated tumors of the salivary gland, adipose and cartilaginous tissue, and Schwann cell-derived tumors express S-100 protein. Almost all malignant melanomas and cases of histiocytosis X are positive for S-100 protein.

<u>Catalog Number</u>	<u>Volume</u>
A00036-0002	2 ml
A00036-0007	7 ml
A00036-0025	25 ml

Ubiquitin; Polyclonal (Ready-To-Use)

Species: Rabbit
 Clone: Polyclonal
 Species Reactivity: Human

Specificity: This antibody detects the presence of intracellular ubiquitinated filamentous inclusions in the periphery of senile plaques and neurofibrillary tangles in Alzheimer's disease and Lewy bodies in Parkinson's disease.

<u>Catalog Number</u>	<u>Volume</u>
A20038	2 ml
A00038	6 ml
A00038.0025	25 ml

Polyclonal Concentrates**p40 (DeltaNp63); Polyclonal (Concentrate)**

Species: Rabbit
 Clone: Polyclonal
 Isotype: Rabbit IgG
 Species Reactivity: Human.
 Cellular Localization: Nuclear.

Specificity: The new marker p40 (DeltaNp63) is highly specific for squamous basal cells.

<u>Catalog Number</u>	<u>Volume</u>
A00112-C	1 ml

S-100; Polyclonal (Concentrate)

Species: Rabbit
 Immunogen: Recombinant full-length human S100B protein.
 Clone: Polyclonal
 Isotype: IgG

Species Reactivity: Human, Mouse, Rat and Cow. Others-not known

Positive Control: Melanoma, Schwannoma or Brain.

Specificity: S-100 belongs to the family of calcium binding proteins. S-100A and S-100B proteins are two members of the S-100 family. S-100A is composed of an alpha and beta chain whereas S-100B is composed of two beta chains. This antibody is specific to an epitope located on the beta-chain (i.e. in S-100A and S-100B) but not on the alpha-chain of S-100 (i.e. in S-100A and S-100A0). This antibody can be used to localize S-100A and S-100B in various tissue sections. S-100 protein has been found in normal melanocytes, Langerhans cells, histiocytes, chondrocytes, lipocytes, skeletal and cardiac muscle, Schwann cells, epithelial and myoepithelial cells of the breast, salivary and sweat glands, as well as in glial cells. Neoplasms derived from these cells also express S-100 protein, albeit non-uniformly. A large number of well-differentiated tumors of the salivary gland, adipose and cartilaginous tissue, and Schwann cell-derived tumors express S-100 protein. Almost all malignant melanomas and cases of histiocytosis X are positive for S-100 protein.

<u>Catalog Number</u>	<u>Volume</u>
A00036-C.1	0.1 ml
A00036-C	1 ml

DNA Ploidy Analysis

Blue Feulgen DNA Ploidy Analysis Staining Kit

The Blue Feulgen DNA Ploidy Analysis Staining Kit is a histochemical reagent kit for quantifying the nuclear DNA content in cells. The kit can be used on a variety of specimen types from cytocentrifuge preparations to formalin fixed paraffin embedded tissue sections. A unique formulation eliminates dye precipitation and results in a cleaner stain than conventional Feulgen reagent-based kits. This stain kit is optimized for DNA Ploidy specimens that will be stained then scanned and viewed on image analysis systems.

The basis of the Feulgen staining procedure is the use of an acid hydrolysis step to remove purines from the deoxyribose backbone of the DNA molecule. The newly exposed deoxyribose sugars have an aldehyde group, and this can then be identified by staining with a Schiff reagent (in this case, an aqueous solution of cresyl-violet and sulfurous acid used to test for the presence of aldehydes).

The amount of stain color developed is directly proportional to the amount of DNA present in the stained cells.

Storage: 2-8 deg. C.

Kit Contents: 2 x 500ml Bottles of Ready-To-Use Liquid Stain
10 vials of Decolorizer
10 vials of Rinse Buffer

<u>Catalog Number</u>	<u>Volume</u>
DPK500	1 kit(s)
DPK500-5	5 kit(s)

Histology

Equipment (Hist.)

Dissecting Board

A new and unique approach makes this dissecting board more convenient than any other found on the market today. It is no more necessary to buy different sizes as this board offers a large surface on one side and two smaller ones on the other side.

Made of heavy-duty stain resistant thick polyethylene, it will last for years to come without changing shape, bending or swelling. Will not dull fine surgical blades. In order to contain fluids, a drain groove is carved all around the edge of the DissecTable.

On one side, you will find a large cutting area including dimensional scales in inches and centimeters, along with a 60 x 80 mm grid made of 48 x 10 mm squares. Six dimensional circles are also printed from 1/8 to 5/8 in. and 4 to 14 mm in diameter. Flip it over and the other side offers two cutting boards half the size with the same dimensional features printed on each one of them. All corners have rubber feet giving more stability to the working surface.

Dimensions: 575 mm x 400 mm x 12.5 mm (23 x 16 x 1/2 in H)

<u>Catalog Number</u>	<u>Volume</u>
M620	1 ea.

Dissecting Board Jr.

A smaller DissecTable is also available with the same features and benefits as the M620. Perfect for smaller counter area.

Dimensions: 330.2 mm x 279.4 mm x 12.5 mm (13 x 11 x 1/2 in H)

<u>Catalog Number</u>	<u>Volume</u>
M618	1 ea.

EasyDip Slide Staining System

Finally a user-friendly approach for staining your microscope slides, the EasyDip Slide Staining System has two components: a square staining jar and a 12 - position vertical slide rack. Jars can be loosely joined to each other laterally, therefore making sure they are kept in the same order when moved around on the lab counter. As an extra benefit, they are available in 5 different colors to help better identifying contents or applications.

The staining jar being made of resistant acetal plastic will not break like most glass jars do. It will resist most staining agents including alcohol and xylene (but not phenol, iodine or ferric chloride). The wide stable base offers greater stability while the inside is recessed, allowing for a smaller reagent volume of only 80 ml. Easy to clean and no metals to corrode. Ideal for special stains, frozen sections and special processes. Will resist temperatures between -170 C and +121 C. Autoclavable. Dimensions: 64 x 76 x 92 mm H (2 1/2 x 3 x 3 5/8 in. H).

Each case includes 5 jars (one of each color) and 1 rack M905-12DGY.

<u>Catalog Number</u>	<u>Volume</u>
M900-12AS-ASSORTED	1 Case(s)

EASYDIP Stainless Steel Holder

Made of Stainless Steel. Will hold up to 6 Jars.

<u>Catalog Number</u>	<u>Volume</u>
M906	1 ea.

Slide Master

(An Innovative Immunohistochemistry Humidity Chamber)

ScyTek Laboratories, Inc. proudly introduces SlideMaster. A humidity chamber designed by a histotechnologist that eliminates the majority of individual slide handling.

SlideMaster has three different parts: A humidity chamber, two individual slide holders with white contrast bars, and a waste receptacle. It has been designed so that all three components are compact and easy to use. A maximum of 20 slides can be used per unit.

This is how it works. A hydrophobic barrier (PAP Pen, Catalog #LP0001) is drawn around the tissue section and slides are put in a special slide holder that secures them into place. Drops of antibody are placed on the slides and incubated. After incubation, the individual slide holders can be tilted and secured at a 45 degree angle. All 20 slides are rinsed off in one easy motion and the buffer (PBS-Tween 20, Catalog # ABA125 or TBS-Tween 20, Catalog # TBS125) drains into the waste receptacle. Slides are gently blotted (tissue paper) at the bottom portion of the hydrophobic barrier, which draws off any remaining liquid on the tissue. The slide holders are then placed back in the horizontal position and incubation and rinse steps are repeated in the same fashion.

For chromogen development, the SlideMaster unit has a contrast bar that changes the background from black to white. The black background produces high contrast so that the tissues mounted glass slides can be easily seen, and the white background produces high contrast and allows the technician to monitor the chromogen development. Slides are then rinsed and counterstained and are then ready for coverslipping. SlideMaster is very easy to use. It is light weight and durable.

By making the hydrophobic barrier around the tissue section as small as possible, the total volume of antibody reagent can be significantly reduced per slide. Instead of using 100-200 microliters of antibodies per tissue section usually 50 microliters will completely cover small tissues and 100 microliters will cover larger tissues. With this method, slide staining is much more efficient, more consistent, drying-out of slides is minimized, and the cost of reagents is reduced.

<u>Catalog Number</u>	<u>Volume</u>
E00001	1 ea.

Slidefile Storage System 100 Positions

Each SlideFile Storage System includes a slide box and a removable tray. A tinted hinged cover makes the contents of the box easy to see at a glance. The base is available in five different colors to help in slide classification and to minimize the possibility of sample mix-up.

The key to the SlideFile System is a removable tray inside the storage box having a hundred individual numbered slots. All slides are stored upright for easier insertion and removal. Simply tilt them forward and backward with one finger to easily and rapidly pick up the slide you need. A unique feature with this system is to be able to read bar codes without having to remove the slides from the box.

For space saving purposes, you can double the amount of slides simply by storing two slides per slot. For maximum storage space, simply remove the tray and line up 400 slides in 3 rows for long term storage. Will resist temperatures between -80 C and +80 C. Not autoclavable.

Dimensions: 82 x 245 x 86 mm H (3 1/4 x 9 5/8 x 3 3/8 in. H)

<u>Catalog Number</u>	<u>Volume</u>
M700-100W-WHITE	1 Case(s)

Stain Tray Slide Staining System

Made of ABS Plastic

Another user friendly approach to immunohistochemistry staining. This tray is also suitable not only for routine staining requiring a humid chamber but is also ideal for Hematology, Cytology and Microbiology laboratories. Manipulation is made safe and easy by using only one hand.

The StainTray has a black base made of tough ABS plastic withstanding a wide range of chemicals (Avoid chlorinated hydrocarbons). It will accept up to 20 slides on four plastic rails covered with a polymer strip to perfectly hold slides even if tray is held at an angle. When humidity is needed, wells between rails will hold up to one ml of water securely without splashing. Middle wells will hold up to 2 ml each. Rails are raised not only to avoid water touching the slides but to make them more easily retrieveable. The base will also hold excess stain solution dripping from the slides. Four rubber feet ensure greater base stability. Units are stackable for space saving purposes.

Two covers are available:

A clear one (M920-1) allowing for visual examination. Made of PETG with a temperature range of -20 C to +60 C.

A black lid (M920-2) for fluorescent work. Made of ABS with a temperature range of -80 C to +80 C.

Dimensions with cover: 38 W x 24 D x 4.5 H cm (15 W x 9 3/8 D x 1 3/4 H in.)

<u>Catalog Number</u>	<u>Volume</u>
M920-1	1 Clear

Stainless Steel Dish with Cover (for 30 Slide Holder)

Stainless Steel Dish with Cover is ideal for use in routine and special stain procedures.

<u>Catalog Number</u>	<u>Volume</u>
IMS004	1 ea.

Vertical Slide Staining Rack Dark Gray

The EasyDip Slide Staining Rack will hold up to 12 microscope slides with dimensions such as 75 x 25 mm, (3 x 1 in.) and even 76 x 26 mm and with a thickness of 1.0 and 1.2 mm. The slides fit into individual slots for free passage and rapid drainage of staining fluids. Since they are placed vertically in the rack and not horizontally, their writing area will not be stained by the fluid, allowing their removal without the use of forceps. The lid completely covers the EasyDip Slide Staining Jar to minimize spill and evaporation. A handle is permanently attached to the rack for easy insertion and removal of slides without your fingers touching the solution. Available in dark gray only. Will resist temperatures between -170 C and +121 C. Autoclavable. Dimensions: 60 x 64 x 97 mm H (2 1/4 x 2 1/2 x 3 3/4 in. H).

<u>Catalog Number</u>	<u>Volume</u>
M905-12DGY	1 Case(s)

Yellow Stain Solution

A proprietary Yellow Dye Solution formulated to give optimal yellow staining results within the Movat Pentachrome Stain procedure. Do not rinse tissue with water after this solution, only ethanol.

<u>Catalog Number</u>	<u>Volume</u>
YSS125	125 ml
YSS500	500 ml
YSS999	1000 ml

Fixation & Decalcification

Bouin's Fluid

Bouin's Fluid is a fixative useful for several routine procedures. It contains formaldehyde and picric acid for both cytoplasmic and chromatin fixation and facilitates excellent H&E staining. It has also been recommended for any general fixation procedures and may be used as a substitute for Zenker's Fluid. It is also used as a post-fixation step that is critical for the bright coloration demonstrated with Trichrome special stain procedures.

<u>Catalog Number</u>	<u>Volume</u>
BNF125	125 ml
BNF500	500 ml
BNF999	1000 ml
BNF3800	1 Gal.

Decal Clear

Decal Quick Clear utilizes hydrochloric acid and a chelating agent to quickly bind and remove all calcium from bone/calcified tissues. This allows the sample to then be sectioned with standard microtomy procedures. This reagent is a standard HCl decalcification reagent, for a more concentrated version and quicker rate decalcification see ScyTek's Decal Quick Clear solution (item: DQC). This solution is ideal for processing tissues that will undergo special staining and procedures other than Immunohistochemistry. Hydrochloric acid-based reagents can negatively affect staining results of immunohistochemical procedures and other decalcification solutions should be considered.

<u>Catalog Number</u>	<u>Volume</u>
DCR-3800	1 Gal.

Decal Quick Clear

Decal Quick Clear utilizes hydrochloric acid and a chelating agent to quickly bind and remove all calcium from bone/calcified tissues. This allows the sample to then be sectioned with standard microtomy procedures. This reagent is a more concentrated version of ScyTek's standard Decal Clear (DCR) and provides a faster rate of decalcification. This solution is ideal for processing tissues that will undergo special staining and procedures other than Immunohistochemistry. Hydrochloric acid-based reagents can negatively affect staining results of immunohistochemical procedures and other decalcification solutions should be considered.

<u>Catalog Number</u>	<u>Volume</u>
DQC-3800	1 Gal.

Formalin (10% Neutral Buffered)

Formalin (10% Neutral Buffered) is one of the most widely used fixatives for the prevention of tissue degradation. Proper fixation is critical for histopathologic procedures and evaluation. This reagent contains formaldehyde and phosphate buffers in an aqueous solution.

<u>Catalog Number</u>	<u>Volume</u>
FRN125	125 ml
FRN500	500 ml
FRN999	1000 ml
FRN3800	1 Gal.

Zinc Formalin Solution

Zinc Formalin is a tissue fixative for routine procedures.

<u>Catalog Number</u>	<u>Volume</u>
ZFN500	500 ml
ZFN999	1000 ml

Transport Media

CytoPort, Cytology Transport Media

This reagent is intended for use as a transport media for mammalian cells for subsequent testing. Samples may be transported at room temperature.

<u>Catalog Number</u>	<u>Volume</u>
CTM500	500 ml
CTM999	1000 ml

Michel's Transport Fluid

Michel's Transport Fluid is intended for use as a transport media of specimens (such as renal biopsies and lymph nodes) for immunofluorescence studies. Samples may remain in media for up to 5 days at room temperature. This reagent is not a fixative and is not suitable for transporting live cells for flow cytometry. Prior to processing, specimens should be washed in 3 changes of Michel's Transport Wash Buffer (cat.# MTW) for 10 minutes each.

<u>Catalog Number</u>	<u>Volume</u>
MTF500	500 ml
MTF999	1000 ml
MTF-10000	10 L
MTF-20000	20 L

Michel's Transport Wash Buffer

This reagent is intended for use as a wash buffer for Michel's Transport Fluid. Michel's Transport Fluid is intended for use as a transport media of specimens (such as renal biopsies and lymph nodes) for immunofluorescence studies. Samples may remain in media for up to 5 days at room temperature. This reagent is not a fixative and is not suitable for transporting live cells for flow cytometry. Prior to processing, specimens should be washed in 3 changes of Michel's Transport Wash Buffer for 10 minutes each.

Catalog Number	Volume
MTW500	500 ml
MTW999	1000 ml
MTW-10000	10 L
MTW-20000	20 L

Nuclear Stains

Bluing Reagent

Bluing Reagent may be used following hematoxylin to "blue" or alter the shade of hematoxylin from a purple to blue. Nuclei: Purple. Nuclei after Bluing: Blue. Blue nuclei after Eosin: Blue to Violet. A pH-controlled solution for complete and effective bluing of hematoxylin in histological and cytological procedures. Hematoxylin is a nuclear stain that is used as a counterstain for immunohistochemistry. Together with eosin, it forms the hematoxylin stain (H&E stain), one of the most commonly used stains in histology.

Summary Protocol:

Stain with hematoxylin according to protocol. Place in Bluing Reagent until nuclei are blue (1-2 minutes).

Catalog Number	Volume
BRT500	500 ml
BRT999	1000 ml
BRT3800	1 Gal.

Differentiating Solution (Acid Alcohol) - 95%

May be used in the removal of excess hematoxylin stain. Reagents contain 3% (v/v) hydrochloric acid in alcohol.

Catalog Number	Volume
DSN500	500 ml
DSN999	1000 ml

Hematoxylin, For Automation

Hematoxylin, For Automation is ideal for use with autostainers. Optimized for the autostainer Hematoxylin, For Automation produces a crisp blue nuclei. Hematoxylin is a nuclear stain that is used as a counterstain for immunohistochemistry (IHC). Together with eosin, it forms the Hematoxylin and Eosin stain (H&E stain), one of the most commonly used stains in histology.

Summary Protocol:

Apply Hematoxylin to completely cover specimen and incubate for 2-10 minutes with hematoxylin according to desired intensity.

Catalog Number	Volume
HAQ500	500 ml
HAQ999	1000 ml

Hematoxylin, Mayer's (Lillie's Modification)

Mayer's Hematoxylin (Lillie's Modification) is a progressive nuclear hematoxylin stain with several histological applications. Nuclei should staining is strong, clean, crisp, and no differentiation is needed. Bluing reagent (Catalog: BRT) may be used following hematoxylin to "blue" or alter the shade of hematoxylin from a purple to blue. Nuclei: Purple. Nuclei after Bluing: Blue. Blue nuclei after Eosin: Blue to Violet.

Hematoxylin is a nuclear stain that is used as a counterstain for immunohistochemistry (IHC). Together with eosin, it forms the Hematoxylin and Eosin stain (H&E stain), one of the most commonly used stains in histology.

Summary Protocol:

Apply Hematoxylin to completely cover specimen and incubate for 2-10 minutes with hematoxylin according to desired intensity.

Catalog Number	Volume
HMM125	125 ml
HMM500	500 ml
HMM999	1000 ml
HMM3800	1 Gal.

Hematoxylin, Weigert's Iron Kit

Weigert's Iron Hematoxylin is intended to be used with various special stain kits. Product is supplied as a two component (equal volumes of parts A and B) system that is mixed prior to use and results in black/blue nuclei.

HWI-1 Kit Contents:

Hematoxylin, Weigert's Iron (Part A), 125ml, Item #: HWI-A-125
Hematoxylin, Weigert's Iron (Part B), 125ml, Item #: HWI-B-125

HWI-2 Kit Contents:

Hematoxylin, Weigert's Iron (Part A), 500ml, Item #: HWI-A-500
Hematoxylin, Weigert's Iron (Part B), 500ml, Item #: HWI-B-500

HWI-3 Kit Contents:

Hematoxylin, Weigert's Iron (Part A), 1000ml, Item #: HWI-A-999
Hematoxylin, Weigert's Iron (Part B), 1000ml, Item #: HWI-B-999

Catalog Number	Volume
HWI-1	250 ml
HWI-2	1000 ml
HWI-3	2000 ml

Methylene Blue Solution

Methylene Blue Solution has been optimized in our research laboratories to give outstanding results when used in various procedures such as the Ziehl-Neelsen, Fite's, and Gram stain. The stain is also suggested for use in staining a variety of bacteria (*Corynebacterium diphtheria*, *Haemophilus influenzae*, *Neisseria*, etc.) and leukocytes. This reagent produces dark blue nuclei with very light blue cytoplasm.

Nuclei:	Dark Blue
Cytoplasm:	Light Blue
<i>Corynebacterium diphtheria</i> :	Blue Granules
<i>Escherichia coli</i> :	Blue Rods
<i>Streptococcus pyogenes</i> :	Blue Cocci

<u>Catalog Number</u>	<u>Volume</u>
MBS125	125 ml
MBS500	500 ml
MBS999	1000 ml

Nuclear Fast Red Solution (Enhanced Stability)

Nuclear Fast Red is a stain with histological applications. The reagent has improved stability over current formulations allowing storage at temperatures ranging from 2-30 Centigrade. Current formulations tend to precipitate in cold temperatures such as experienced during winter shipping. In addition, most formulations develop a small amount of precipitate over extended periods of time. This advanced formulation eliminates problems associated with exposure to cold and aging.

Nuclei:	Red
Cytoplasm:	Pale Pink

<u>Catalog Number</u>	<u>Volume</u>
NFS125	125 ml
NFS500	500 ml
NFS999	1000 ml
NFS3800	1 Gal.

Cytoplasmic Stains

Eosin Y Solution (Alcoholic)

Eosin Y Solution is intended for use in the histological demonstration of cytoplasm and is commonly used as a counterstain for Hematoxylin. When used correctly, various shades of pink can be obtained to aid in visualization of tissue components. Erythrocytes, collagen, and the cytoplasm of muscle or epithelial cells will stain with different shades of pink.

Cytoplasm:	Pink to Red
Erythrocytes:	Pink to Red
Nuclei:	Black/Blue (Hematoxylin)

<u>Catalog Number</u>	<u>Volume</u>
EYA500	500 ml
EYA999	1000 ml
EYA3800	1 Gal.

Eosin Y Solution (Aqueous)

Eosin Y Solution (Aqueous) is intended for use in the histological demonstration of cytoplasm and is commonly used as a counterstain for Hematoxylin. When used correctly, various shades of pink can be obtained to aid in visualization of tissue components. Erythrocytes, collagen, and the cytoplasm of muscle or epithelial cells will stain with different shades of pink.

Cytoplasm:	Pink to Red
Erythrocytes:	Pink to Red
Nuclei:	Black/Blue (Hematoxylin)

<u>Catalog Number</u>	<u>Volume</u>
EYQ500	500 ml
EYQ999	1000 ml
EYQ3800	1 Gal.

Eosin Y Solution (Modified Alcoholic)

Eosin Y Solution (Modified Alcoholic) is intended for use in histology and cytology applications. This newly formulated Eosin provides the benefits of a traditional alcoholic formula with significant improvements in usability. Advantages include lower evaporation rate, better color patterns, reduced tendency to spill over container, hands, and countertops, and improved surface tension to remain on tissue section.

Cytoplasm:	Light Pink
Collagen:	Pink
Muscle:	Pink/Rose
Erythrocytes:	Pink/Red
Summary Protocol:	

Deparaffinize sections and hydrate
Apply adequate Eosin Y Solution (Modified Alcoholic) incubate for 2-3 minutes
Rinse
Dehydrate slide
Clear slide and mount

<u>Catalog Number</u>	<u>Volume</u>
EYB500	500 ml
EYB999	1000 ml
EYB3800	1 Gal.

Eosin-Phloxine Solution

Eosin-Phloxine Solution is intended for use in the histological demonstration of cytoplasm. The addition of Phloxine to Eosin results in more vibrant staining than with Eosin alone. When used correctly, Eosin-Phloxine various shades of pink can be obtained to aid in visualization of tissue components.

Cytoplasm:	Pink to Red
Erythrocytes:	Pink to Red
Alcoholic Hyalin:	Pink

<u>Catalog Number</u>	<u>Volume</u>
EPN500	500 ml
EPN999	1000 ml
EPN3800	1 Gal.

OG-6 Solution

OG-6 is a cytologic stain routinely used in diagnostic cytology to aid in the identification and classification of exfoliative cells. The stain is used for examining exfoliative cells of vaginal, cervical, sputum, as well as other body secretions. Commonly used in combination with hematoxylin.

<u>Catalog Number</u>	<u>Volume</u>
OGA500	500 ml
OGA999	1000 ml
OGA3800	1 Gal.

Special Stains**Lieb's Crystal Violet for Amyloid (0.5%)**

The use of Crystal Violet for metachromatically staining amyloid was published in 1947 by Ethel Lieb. This stain utilizes a water-reliant metachromatic staining reaction giving reddish amyloid with a blue background. A water-based mounting medium is required to retain permanence of red amyloid coloring.

<u>Catalog Number</u>	<u>Volume</u>
LAM250	250 ml
LAM500	500 ml
LAM999	1000 ml

Special Stain Kits**Acid Fast Bacteria (AFB) Stain Kit**

The Acid Fast Bacteria (AFB) Stain Kit is intended for use in the histological visualization of Acid Fast Bacteria and Tubercle Bacilli. This kit is a rapid 15-minute procedure. The lipid capsule of the acid-fast organism takes up carbol fuchsin and resists decolorization.

Acid Fast Organisms: Bright Red
Background: Light Green

FAB-1 Kit Contents:

Carbol Fuchsin Solution, 125ml, Item #: CFZ125
Acid Alcohol Solution (0.5%), 500ml, Item #: AAL500
Light Green Solution, 125ml, Item #: LGA125

FAB-2 Kit Contents:

Carbol Fuchsin Solution, 30ml, Item #: CFZ030
Acid Alcohol Solution (0.5%), 30ml x2, Item #: AAL030
Light Green Solution, 30ml, Item #: LGA030

FAB-500 Kit Contents:

Carbol Fuchsin Solution, 500ml, Item #: CFZ500
Acid Alcohol Solution (0.5%), 500ml x2, Item #: AAL500
Light Green Solution, 500ml, Item #: LGA500

<u>Catalog Number</u>	<u>Volume</u>
FAB-2	30 ml ea.
FAB-1	125 ml ea.
FAB-500	500 ml ea.

Alcian Blue - PAS Stain Kit

The Alcian Blue - PAS Stain Kit is intended for use in the simultaneous histological visualization of sulfated and carboxylated acid mucopolysaccharides, sulfated and carboxylated sialomucins (glycoproteins) and neutral mucins.

Acidic Sulfated Mucosubstances: Blue
Hyaluronic Acid: Blue
Sialomucins: Blue
Neutral Mucins: Magenta
Mixtures of Acidic and Neutral Mucins: Blue - Mauve depending on dominant entity.

APS-1 Kit Contents:

Acetic Acid Solution (3%), 125ml x2, Item #: AAG125
Alcian Blue Solution pH 2.5, 250ml, Item #: ANC250
Periodic Acid Solution (1%), 250ml, Item #: PAQ250
Schiff's Solution, 250ml, Item #: SRF250
Hematoxylin, Mayer's (Lillie's), 125ml x2, Item #: HMM125

APS-2 Kit Contents:

Acetic Acid Solution (3%), 30ml, Item #: AAG030
Alcian Blue Solution pH 2.5, 30ml, Item #: ANCO30
Periodic Acid Solution (1%), 30ml, Item #: PAQ030
Schiff's Solution, 30ml, Item #: SRF030
Hematoxylin, Mayer's (Lillie's), 30ml, Item #: HMM030

<u>Catalog Number</u>	<u>Volume</u>
APS-2	100 Slides
APS-1	1 kit(s)
APS-500	1 kit(s)

Alcian Blue (pH 1.0) Stain Kit

The Alcian Blue (pH 1.0) Stain Kit is intended for use in the histological visualization of strongly sulfated mucosubstances.

Strongly Sulfated Mucosubstances: Blue
Nuclei: Red
Background: Pink

AFT-1 Kit Contents:

Alcian Blue Solution pH 1.0, 250ml, Item #: ANA250
Hydrochloric Acid Solution 1N, 500ml, Item #: HQA500
Nuclear Fast Read - Enhanced Stability, 250ml, Item #: NFS250

AFT-2 Kit Contents:

Alcian Blue Solution pH 1.0, 30ml, Item #: ANA030
Hydrochloric Acid Solution 1N, 30ml x2, Item #: HQA030
Nuclear Fast Read - Enhanced Stability, 30ml, Item #: NFS030

<u>Catalog Number</u>	<u>Volume</u>
AFT-2	1 kit(s)
AFT-1	1 kit(s)

Alcian Blue (pH 2.5) Staining Kit

The Alcian Blue (pH 2.5) Stain Kit is intended for use in the histological visualization of sulfated and carboxylated acid mucopolysaccharides and sulfated and carboxylated sialomucins (glycoproteins).

Acidic Sulfated Mucosubstances: Blue
 Hyaluronic Acid: Blue
 Sialomucins: Blue
 Nuclei: Red
 Background: Pink

Control: Intestine or Colon.

Contents: Alcian Blue Solution (pH 2.5), 250ml
 Acetic Acid Solution, 500ml
 Nuclear Fast Red, 250 ml

AFR-1 Kit Contents:

Alcian Blue Solution pH 2.5, 250ml, Item #: ANC250
 Nuclear Fast Red - Enhanced Stability, 250ml, Item #: NFS250
 Acetic Acid Solution, 500ml, Item #: AAG500

AFR-2 Kit Contents:

Alcian Blue pH 2.5, 30ml, Item #: ANC030
 Nuclear Fast Red - Enhanced Stability, 30ml, Item #: NFS030
 Acetic Acid Solution, 60ml, Item #: AAG060

<u>Catalog Number</u>	<u>Volume</u>
AFR-2	30 ml ea.
AFR-1	250 ml ea.

Amyloid Stain Kit (Congo Red)

The Amyloid Stain Kit (Congo Red) is intended for use in the histological visualization of amyloid in tissue sections. Examination under a polarizing microscope results in green birefringence of amyloid.

Amyloid: Red to Pink
 Erythrocytes: Light Orange
 Eosinophil Granules: Orange to Red
 Nuclei: Blue

AMY-1 Kit Contents:

Congo Red Solution, 500ml, Item #: CRA500
 Hematoxylin, 500ml, Item #: HMM500
 Bluing Reagent, 500ml, Item #: BRT500

AMY-2 Kit Contents:

Congo Red Solution, 30ml x2, Item #: CRA030
 Hematoxylin, 30ml, Item #: HMM030
 Bluing Reagent, 30ml, Item #: BRT030

<u>Catalog Number</u>	<u>Volume</u>
AMY-2	1 kit(s)
AMY-1	1 kit(s)

Bielschowsky's Stain Kit (Modified)

The Bielschowsky's Stain Kit (Modified) is designed for histological visualization of nerve fibers, neurofibrillary tangles and senile plaques in Alzheimer's disease.

Axons: Black
 Neurofibrillary Tangles: Black
 Senile Plaques: Black
 Nuclei: Dark Brown
 Background: Yellow to Light Brown

BSK-1 Kit Contents:

Silver Nitrate Solution (20%), 500ml, Item #: SNZ500
 Formalin Solution (20%), 8ml, Item #: FRL008
 Citric Acid Solution (Bielschowsky's), 8ml, Item #: CAS008
 Nitric Acid Solution (Bielschowsky's), 8ml, Item #: NAS008
 Sodium Thiosulfate Solution (5%), 125ml, Item #: STB125

<u>Catalog Number</u>	<u>Volume</u>
BSK-1	1 kit(s)

Calcium Stain Kit (Modified Von Kossa)

The Calcium Stain Kit (Modified Von Kossa) is intended for use in the histological visualization of calcium deposits in paraffin sections.

Calcium in mass deposits: Black
 Calcium in dispersed deposits: Gray
 Nuclei: Red
 Cytoplasm: Light Pink

CVK-1 Kit Contents:

Silver Nitrate Solution (5%), 125ml, Item #: SNV125
 Sodium Thiosulfate Solution (5%), 125ml, Item #: STB125
 Nuclear Fast Red Solution, 125ml, Item #: NFS125

CVK-2 Kit Contents:

Silver Nitrate Solution (5%), 30ml, Item #: SNV030
 Sodium Thiosulfate Solution (5%), 30ml, Item #: STB030
 Nuclear Fast Red Solution, 30ml, Item #: NFS030

<u>Catalog Number</u>	<u>Volume</u>
CVK-2	1 kit(s)
CVK-1	1 kit(s)
CVK-250	1 kit(s)

Colloidal Iron Stain Kit

The Colloidal Iron Stain Kit is designed for the histological visualization of acid mucopolysaccharides. In some cases the Alcian Blue pH 2.5 stain kit (Item#: AFR) proves to be a much more reliable and sensitive option for staining Acid Mucopolysaccharides. We would recommend this kit if the colloidal iron staining is not satisfactory.

Acid Mucopolysaccharides: Bright Blue
Collagen: Shades of Red

CIK-1 Kit Contents:

Acetic Acid Solution (12%), 500ml, Item #: AAK500
Water, Deionized/Distilled, 125ml, Item #: DDH125
Hydrochloric Acid Solution (1N), 125ml, Item #: HQA125
Potassium Ferrocyanide Solution (3%), 125ml, Item #: PFD125
Colloidal Iron Stock Solution, 125ml, Item #: CIS125
Van Gieson's Solution, 125ml, Item #: VGS125

CIK-2 Kit Contents:

Acetic Acid Solution (12%), 60ml x2, Item #: AAK060
Water, Deionized/Distilled, 30ml, Item #: DDH030
Hydrochloric Acid Solution (1N), 30ml, Item #: HQA030
Potassium Ferrocyanide Solution (3%), 30ml, Item #: PFD030
Colloidal Iron Stock Solution, 30ml, Item #: CIS030
Van Gieson's Solution, 30ml, Item #: VGS030

<u>Catalog Number</u>	<u>Volume</u>
CIK-2	100 Slides
CIK-1	1 kit(s)
CIK-500	500 ml

Copper Stain Kit

The Copper Stain Kit is intended for the demonstration of copper deposits in tissue sections.

Copper Deposits: Light Brown to Red
Nuclei: Blue

CSK-1 Kit Contents:

Rhodanine Solution (Stock), 30ml, Item #: RSS030
Acetate Buffer Solution pH 8.0, 500ml x2, Item #: SAB500
Hematoxylin, Mayer's (Lillie's Mod.), 125ml, Item #: HMM125

CSK-2 Kit Contents:

Rhodanine Solution (Stock), 8ml, Item #: RSS008
Acetate Buffer Solution pH 8.0, 60ml x3, Item #: SAB060
Hematoxylin, Mayer's (Lillie's Mod.), 30ml, Item #: HMM030
Mixingg/Dropper Vial, 1 ea

<u>Catalog Number</u>	<u>Volume</u>
CSK-2	1 kit(s)
CSK-1	1 kit(s)

Elastic Stain Kit (Modified Verhoeff's)

The Elastic Stain Kit is intended for use in histological demonstration of elastin in tissue sections. Demonstration of elastic tissue is useful in cases of emphysema (atrophy of elastic tissue), arteriosclerosis (thinning and loss of elastic fibers) and various other vascular diseases.

Elastic fibers: Black to Blue/Black
Nuclei: Blue to Black
Collagen: Red
Muscle & Other: Yellow

ETS-1 Kit Contents:

Hematoxylin Solution (5%), 250ml, Item #: HSV250
Ferric Chloride (10%, Aqueous), 125ml, Item #: FCC125
Lugol's Iodine Solution, 125ml, Item #: LIS125
Ferric Chloride (2%) Differentiating Solution, 125ml, Item #: FCB125
Sodium Thiosulfate Solution (5%), 125ml, Item #: STB125
Van Gieson's Solution, 125ml, Item #: VGS125

ETS-2 Kit Contents:

Hematoxylin Solution (5%), 60ml, Item #: HSV060
Ferric Chloride (10%, Aqueous), 30ml, Item #: FCC030
Lugol's Iodine Solution, 30ml, Item #: LIS030
Ferric Chloride (2%) Differentiating Solution, 60ml, Item #: FCB060
Sodium Thiosulfate Solution (5%), 30ml, Item #: STB030
Van Gieson's Solution, 30ml, Item #: VGS030
Graduated Mixing Vial, 1 ea

<u>Catalog Number</u>	<u>Volume</u>
ETS-2	1 kit(s)
ETS-1	1 kit(s)

Eosinophil - Mast Cell Stain Kit

The Eosinophil - Mast Cell Stain Kit is intended for simultaneous visualization of eosinophils and mast cells.

Mast Cells: Bright Blue
Eosinophils: Bright Red
Nuclei: Blue

CEM-1 Kit Contents:

Astra Blue Solution, 125ml, Item #: AST125
Vital New Red Solution, 125ml, Item #: VRN125
Hematoxylin, Mayer's (Lillie's Mod.), 125ml, Item #: HMM125

CEM-2 Kit Contents:

Astra Blue Solution, 30ml, Item #: AST030
Vital New Red Solution, 30ml, Item #: VRN030
Hematoxylin, Mayer's (Lillie's Mod.), 30ml, Item #: HMM030

<u>Catalog Number</u>	<u>Volume</u>
CEM-2	1 kit(s)
CEM-1	1 kit(s)

Fite's Stain Kit

The Fite's Stain Kit (For Leprosy) is intended for use in the histological visualization of mycobacterium leprae (leprosy) and Nocardia.

Lepra bacillus: Red
Nocardia: Red
Background: Blue

FLS-1 Kit Contents:

Xylene-Peanut Oil Solution, 125ml, Item #: XPO125
Carbol Fuchsin Solution, 125ml, Item #: CFZ125
Acid Alcohol Solution (1%), 500ml, Item #: AAM500
Methylene Blue Solution, 125ml, Item #: MBS125

FLS-500 Kit Contents:

Xylene-Peanut Oil Solution, 500ml, Item #: XPO500
Carbol Fuchsin Solution, 500ml, Item #: CFZ500
Acid Alcohol Solution (1%), 500ml x2, Item #: AAM500
Methylene Blue Solution, 500ml, Item #: MBS500

<u>Catalog Number</u>	<u>Volume</u>
FLS-1	125 ml ea.
FLS-500	500 ml ea.

Fontana-Masson Stain Kit (For Argentaffin Cells and Melanin)

The Fontana-Masson Stain Kit is intended for use in the histological visualization of Argentaffin cells and Melanin in paraffin or frozen sections.

Argentaffin Cells: Black
Melanin: Black
Nuclei: Red
Cytoplasm: Light Pink

FMS-1 Kit Contents:

Gold Chloride Solution (0.2%), 125ml, Item #: GCB125
Silver Nitrate Solution (10%), 9ml x5, Item #: SNX009
Sodium Thiosulfate Solution (5%), 125ml, Item #: STB125
Nuclear Fast Red Solution, 125ml, Item #: NFS125

FMS-2 Kit Contents:

Gold Chloride Solution (0.2%), 30ml, Item #: GCB030
Silver Nitrate Solution (10%), 9ml x2, Item #: SNX009
Sodium Thiosulfate Solution (5%), 30ml, Item #: STB030
Nuclear Fast Red Solution, 30ml, Item #: NFS030

<u>Catalog Number</u>	<u>Volume</u>
FMS-2	1 kit(s)
FMS-1	1 kit(s)

Giemsa Stain Kit (May-Grunwald)

The Giemsa Stain Kit (May-Grunwald) is intended for use in the visualization of cells present in hematopoietic tissues and certain microorganisms. This kit may be used on formalin-fixed, paraffin-embedded sections.

Nuclei: Blue/Violet
Cytoplasm: Light Blue
Collagen: Pale Pink
Muscle Fibers: Pale Pink
Erythrocytes: Gray, Yellow or Pink
Rickettsia: Reddish-Purple
Helicobacter Pylori: Blue
Mast Cells: Dark Blue with Red Granules

GMG-1 Kit Contents:

May-Grunwald Stock Solution, 500ml, Item #: MAY500
Giemsa Stock Solution, 500ml, Item #: GGS500
Phosphate Buffer Solution pH 6.8, 500ml, Item #: PBM500

GMG-2 Kit Contents:

May-Grunwald Stock Solution, 30ml, Item #: MAY030
Giemsa Stock Solution, 5ml, Item #: GGS008
Phosphate Buffer Solution pH 6.8, 60ml x2, Item #: PBM060
Graduated Mixing Vial, 2 ea

<u>Catalog Number</u>	<u>Volume</u>
GMG-2	100 Slides
GMG-1	1 kit(s)

Glycogen, Elastin, Mucin Stain Kit

This stain kit utilizes a sulfation procedure and Toluidine Blue O to give specific metachromatic staining of Glycogen, Elastin, and Mucin (acidic and neutral) in formalin-fixed paraffin-embedded sections. Similar methods have previously been studied and referenced as Aldehyde Bisulfite Toluidine (ABT) and Permanganate Bisulfite Toluidine (PBT) staining. Glycogen may be visualized with a contrasting background as an improvement upon PAS staining.

<u>Catalog Number</u>	<u>Volume</u>
GEM-2	30 ml ea.
GEM-1	kit(s)

GMS Stain Kit

The Modified Gomori Methenamine-Silver Nitrate Stain (GMS Stain Kit) is intended for use in the histologic visualization of fungi, basement membrane and some opportunistic organisms such as *Pneumocystis carinii*. *Pneumocystis carinii* is an opportunistic pathogen that causes severe pulmonary disease in humans, dogs, rats, mice and other vertebrate species with acquired, induced, or inherited immune deficiency syndromes. In addition, this procedure will demonstrate *Actinomyces* and related species, *Nocardia* asteroids, and certain encapsulated bacteria.

KAA-1 Kit Contents:

Silver Nitrate Solution (0.2%), 125ml, Item #: SNS125

Methenamine Solution, 125ml, Item #: MET125

Gold Chloride Solution (0.2%), 125ml, Item #: GCB125

Borax Solution, 15ml, Item #: BOR015

Sodium Bisulfite Solution, 125ml, Item #: SBC125

Chromic Acid Solution, 125ml, Item #: CHR125

Sodium Thiosulfate Solution (5%), 125ml, Item #: STB125

Light Green Solution, 125ml, Item #: LGA125

KAA-1000 Kit Contents:

Silver Nitrate Solution (0.2%), 1000ml, Item #: SNS999

Methenamine Solution, 1000ml, Item #: MET999

Gold Chloride Solution (0.2%), 1000ml, Item #: GCB999

Borax Solution, 125ml, Item #: BOR125

Sodium Bisulfite Solution, 1000ml, Item #: SBC999

Chromic Acid Solution, 1000ml, Item #: CHR999

Sodium Thiosulfate Solution (5%), 1000ml, Item #: STB999

Light Green Solution, 1000ml, Item #: LGA999

<u>Catalog Number</u>	<u>Volume</u>
KAA-1	125 ml ea.
KAA-500	500 ml ea.
KAA-1000	1000 ml ea.

GMS Stain Kit with Periodic Acid

The Modified Gomori Methenamine-Silver Nitrate Stain (GMS Stain Kit) is intended for use in the histologic visualization of fungi, basement membrane and some opportunistic organisms such as *Pneumocystis carinii*. Periodic acid replaces traditional chromic acid as a less hazardous oxidation alternative. Background connective tissue may stain blacker in comparison with standard chromic acid oxidation.

Fungi:	Black
<i>P. carinii</i> :	Black
Mucin:	Gray
Mycelia (inner):	Gray to Black
Hyphae (inner):	Gray to Black
Background:	Light Green

MGM-1 Kit Contents:

Silver Nitrate Solution, 125ml, Item #: SNS125

Borate Methenamine Solution, 125ml, Item #: BMS125

Gold Chloride Solution (0.2%), 125ml, Item #: GCB125

Periodic Acid Solution, 125ml, Item #: PAQ125

Sodium Thiosulfate Solution (5%), 125ml, Item #: STB125

Light Green Solution, 125ml, Item #: LGA125

MGM-2 Kit Contents:

Silver Nitrate Solution, 30ml, Item #: SNS030

Borate Methenamine Solution, 30ml, Item #: BMS030

Gold Chloride Solution (0.2%), 30ml, Item #: GCB030

Periodic Acid Solution, 30ml, Item #: PAQ030

Sodium Thiosulfate Solution (5%), 30ml, Item #: STB030

Light Green Solution, 30ml, Item #: LGA030

<u>Catalog Number</u>	<u>Volume</u>
MGM-1	125 ml ea.

Gram Stain Kit

The Gram Stain Kit is intended for the demonstration and differentiation of Gram-positive and Gram-negative bacteria.

Gram Positive Bacteria: Blue
 Gram Negative Bacteria: Red
 Other Tissue: Yellow
 Nuclei: Red

GSK-1 Kit Contents:

Gentian Violet Solution, 125ml, Item #: GVS125
 Lugol's Iodine Solution, 125ml, Item #: LIS125
 Gram's Decolorizer Solution, 125ml, Item #: GDS125
 Carbol Fuchsin Counterstain, 125ml, Item #: CFX125
 Tartrazine Solution, 125ml, Item #: TZQ125

GSK-2 Kit Contents:

Gentian Violet Solution, 30ml, Item #: GVS030
 Lugol's Iodine Solution, 30ml, Item #: LIS030
 Gram's Decolorizer Solution, 30ml x2, Item #: GDS030
 Carbol Fuchsin Counterstain, 30ml, Item #: CFX030
 Tartrazine Solution, 30ml, Item #: TZQ030

GSK-500 Kit Contents:

Gentian Violet Solution, 500ml, Item #: GVS500
 Lugol's Iodine Solution, 500ml, Item #: LIS500
 Gram's Decolorizer Solution, 500ml, Item #: GDS500
 Carbol Fuchsin Counterstain, 500ml, Item #: CFX500
 Tartrazine Solution, 500ml, Item #: TZQ500

<u>Catalog Number</u>	<u>Volume</u>
GSK-2	30 ml ea.
GSK-1	125 ml ea.
GSK-500	500 ml ea.

Gram Stain Kit (Modified Brown & Brenn)

The Gram Stain Kit (Modified Brown & Brenn) is intended for the demonstration and differentiation of Gram-positive and Gram-negative bacteria.

Gram Positive Bacteria: Blue
 Gram Negative Bacteria: Red
 Background: Yellow
 Nuclei: Red

BBS-1 Kit Contents:

Gentian Violet Solution, 125ml, Item #: GVS125
 Lugol's Iodine Solution, 125ml, Item #: LIS125
 Gram's Decolorizer Solution, 125ml, Item #: GDS125
 Safranin O Solution (For Gram Staining), 125ml, Item #: SOG125
 Picric Acid - Acetone Solution (0.1%), 125ml, Item #: PAB125

BBS-2 Kit Contents:

Gentian Violet Solution, 30ml, Item #: GVS030
 Lugol's Iodine Solution, 30ml, Item #: LIS030
 Gram's Decolorizer Solution, 30ml x2, Item #: GDS030
 Safranin O Solution (For Gram Staining), 30ml, Item #: SOG030
 Picric Acid - Acetone Solution (0.1%), 30ml, Item #: PAB030

BBS-500 Kit Contents:

Gentian Violet Solution, 500ml, Item #: GVS500
 Lugol's Iodine Solution, 500ml, Item #: LIS500
 Gram's Decolorizer Solution, 500ml, Item #: GDS500
 Safranin O Solution (For Gram Staining), 500ml, Item #: SOG500
 Picric Acid - Acetone Solution (0.1%), 500ml, Item #: PAB500

<u>Catalog Number</u>	<u>Volume</u>
BBS-2	30 ml ea.
BBS-1	125 ml ea.
BBS-250	250 ml
BBS-500	500 ml ea.

H. Pylori Rapid Stain (1-Step)

The H. Pylori Rapid Stain (1-Step) is a single component reagent that has been developed to identify helicobacter pylori in a procedure that requires less than 10 minutes to complete. Procedure is effective for fresh, frozen, and paraffin embedded sections. Helicobacter Pylori has been shown to be the causative organism in some gastric ulcers.

H. Pylori: Dark Blue/Purple
 Cytoplasm: Pink to Red
 Background: Violet
 Nuclei: Blue

<u>Catalog Number</u>	<u>Volume</u>
HPS030	30 ml
HPS500	500 ml
HPS999	1000 ml

H. Pylori Rapid Stain Kit

The H. Pylori Rapid Stain Kit is designed for demonstrating Helicobacter Pylori infected tissue. Kit may be used on formalin fixed, paraffin-embedded tissue. The Warthin-Starry Stain Kit (WSS-1) is a more sensitive system for H. Pylori and is suggested for cases where total H. Pylori count is low.

Results:

Helicobacter Pylori: Blue
Mucin: Yellow
Background: Light Blue

AYH-1 Kit Contents:

Periodic Acid Solution, 500ml, Item #: PAQ030
Sodium Metabisulfite Solution, 125ml, Item #: SME030
Alcian Yellow Solution, 125ml, Item #: ANY030
Toluidine Blue Solution, 6ml x2, Item #: TQF003
Sodium Hydroxide Solution (3%), 8ml, Item #: SHC003

AYH-2 Kit Contents:

Periodic Acid Solution, 30ml, Item #: PAQ030
Sodium Metabisulfite Solution, 30ml, Item #: SME030
Alcian Yellow Solution, 30ml, Item #: ANY030
Toluidine Blue Solution, 3ml, Item #: TQF003
Sodium Hydroxide Solution (3%), 3ml, Item #: SHC003

<u>Catalog Number</u>	<u>Volume</u>
AYH-2	100 Slides
AYH-1	1 kit(s)
AYH-500	500 ml

Hematoxylin and Eosin Stain Kit

The Hematoxylin and Eosin Stain Kit is intended for use in histology and cytology applications. Included in this kit is a newly formulated Eosin that provides the benefits of a traditional alcoholic formula with significant improvements in usability. Advantages include lower evaporation rate, better color patterns, reduced tendency to spill over container, hands, and countertops, and improved surface tension to remain on tissue section. Our Hematoxylin produces crisp, intense blue nuclei providing optimal contrast to the Eosin stained cytoplasm.

Cytoplasm: Light Pink
Collagen: Pink
Muscle: Pink/Rose
Erythrocytes: Pink/Red Nuclei: Blue

Summary Protocol:

Deparaffinize and hydrate.
Apply adequate Hematoxylin, Mayer's (Lillie's Modification) and incubate for 5 minutes.
Apply adequate Bluing Reagent and incubate for 10-15 seconds.
Apply adequate Eosin Y Solution (Modified Alcoholic and incubate for 2-3 minutes.
Clear and mount.

HAE-1 Kit Contents:

Hematoxylin, Mayer's (Lillie's Modification), 500ml, Item #: HMM500
Bluing Reagent, 500ml, Item #: BRT500
Eosin Y Solution (Modified Alcoholic), 500ml, Item #: EYB500

HAE-2 Kit Contents:

Hematoxylin, Mayer's (Lillie's Modification), 30ml, Item #: HMM030
Bluing Reagent, 30ml, Item #: BRT030
Eosin Y Solution (Modified Alcoholic), 30ml, Item #: EYB030

<u>Catalog Number</u>	<u>Volume</u>
HAE-2	100 Slides
HAE-1	1 kit(s)

Herovici's Stain Kit

The Herovici stain kit is intended to differentiate between young and mature collagen. Young collagen and reticulin stain blue and Mature collagen stains red. Weigert's Iron Hematoxylin is provided to stain nuclei blue to black.

HSK-1 Kit Contents:

Herovici's Stain Solution A, 125ml, Item #: HVA125
Herovici's Stain Solution B, 125ml, Item #: HVB125
Hematoxylin, Weigert's Iron (Part A), 125ml, Item #: HWI-A-125
Hematoxylin, Weigert's Iron (Part B), 125ml, Item #: HWI-B-125

<u>Catalog Number</u>	<u>Volume</u>
HSK-1	1 kit(s)

Jones Methenamine Silver Stain Kit (For Basement Membrane)

The Jones Stain Kit is intended for use in histological demonstration of the basement membrane and reticular fibers. This procedure is ideal for staining renal glomerular basement membranes. The main function of the basement membrane and reticular fibers is to provide anchorage and support. They are normally found throughout the body, particularly in the kidney, spleen, and lung.

Basement Membrane:	Black
Reticulum Fibers:	Black
Nuclei:	Red
Cytoplasm:	Light Pink

JSK-1 Kit Contents:

Periodic Acid Solution, 250ml, Item #: PAQ250
 Methenamine Solution, 250ml x2, Item #: MET250
 Silver Nitrate Solution (5%), 30ml, Item #: SNV030
 Borax Solution, 125ml, Item #: BOR125
 Gold Chloride Solution (0.2%), 125ml, GCB125
 Sodium Thiosulfate Solution (5%), 125ml, Item #: STB125
 Nuclear Fast Red Solution (Enhanced), 125ml, Item #: NFS125

<u>Catalog Number</u>	<u>Volume</u>
JSK-1	1 kit(s)

Lieb's Crystal Violet for Amyloid (0.5%)

The use of Crystal Violet for metachromatically staining amyloid was published in 1947 by Ethel Lieb. This stain utilizes a water-reliant metachromatic staining reaction giving reddish amyloid with a blue background. A water-based mounting medium is required to retain permanence of red amyloid coloring.

<u>Catalog Number</u>	<u>Volume</u>
LAM250	250 ml
LAM500	500 ml
LAM999	1000 ml

Luxol Fast Blue Stain Kit

The Luxol Fast Blue Stain Kit is designed for staining myelin/myelinated axons and Nissil substance on formalin fixed, paraffin-embedded tissue. This product is used for identifying the basic neuronal structure in brain or spinal cord sections.

LBC-1 Kit Contents:

Cresyl Echt Violet Solution, 125ml, Item #: CEA125
 Luxol Fast Blue Solution, 125ml, Item #: LFB125
 Lithium Carbonate Solution, 500ml, Item #: LCQ500
 Alcohol, Reagent (70%), 500ml, Item #: EAS500

LBC-2 Kit Contents:

Cresyl Echt Violet Solution, 30ml, Item #: CEA030
 Luxol Fast Blue Solution, 60ml, Item #: LFB060
 Lithium Carbonate Solution, 60ml, Item #: LCQ060
 Alcohol, Reagent (70%), 60ml, Item #: EAS060

<u>Catalog Number</u>	<u>Volume</u>
LBC-2	1 kit(s)
LBC-1	1 kit(s)

Martius Scarlet Blue (MSB) Stain Kit

The Martius Scarlet Blue (MSB) stain kit is intended for use in the histological demonstration of fibrin, muscle, collagen, and erythrocytes. MSB is a reliable method of differentiating fresh and old fibrin clusters.

Fibrin:	Red (fresh fibrin may stain yellow and old fibrin blue)
Muscle:	Pink to Pale Red
Erythrocytes:	Yellow
Nuclei:	Red to Black
Collagen:	Blue
Other Connective Tissue:	Blue

MSB-1 Kit Contents:

Bouin's Fluid, 125ml, Item #: BNF125
 Hematoxylin, Weigert's Iron (Part A), 125ml, Item #: HWI-A-125
 Hematoxylin, Weigert's Iron (Part B), 125ml, Item #: HWI-B-125
 Martius Yellow Solution, 125ml, Item #: MYS125
 Crystal Scarlet Solution, 125ml, Item #: CSA125
 Phosphotungstic Acid Differentiator, 125ml, Item #: PGM125
 Aniline Blue Solution (MSB), 125ml, Item #: ANS125

MSB-2 Kit Contents:

Bouin's Fluid, 30ml x2, Item #: BNF030
 Hematoxylin, Weigert's Iron (Part A), 30ml, Item #: HWI-A-030
 Hematoxylin, Weigert's Iron (Part B), 30ml, Item #: HWI-B-030
 Martius Yellow Solution, 30ml, Item #: MYS030
 Crystal Scarlet Solution, 30ml, Item #: CSA030
 Phosphotungstic Acid Solution (MSB), 30ml, Item #: PGM030
 Aniline Blue Solution (MSB), 30ml, Item #: ANS030

<u>Catalog Number</u>	<u>Volume</u>
MSB-2	30 ml ea.
MSB-1	125 ml ea.
MSB-500	1 kit(s)

Movat Pentachrome Stain Kit (Modified Russell-Movat)

The Movat Pentachrome Stain Kit (Modified Movat) is intended for use in histological demonstration of collagen, elastin, muscle, mucin and fibrin in tissue sections. This procedure is particularly useful when studying the heart, blood vessels and various vascular diseases.

Elastic Fibers: Black to Blue/Black
 Nuclei: Blue/Black
 Collagen: Yellow
 Reticular Fibers: Yellow
 Mucin: Bright Blue
 Fibrin: Bright Red
 Muscle: Red

MPS-1 Kit Contents:

Hematoxylin Solution (5%), 250ml, Item #: HSV250
 Ferric Chloride Solution (10%), 125ml, Item #: FCC125
 Lugol's Iodine Solution, 125ml, Item #: LIS125
 Ferric Chloride (2%) Differentiating Solution, 250ml, Item #: FCB250
 Sodium Thiosulfate Solution (5%), 125ml, Item #: STB125
 Acetic Acid Solution (1%), 125ml, Item #: AAE125
 Alcian Blue Solution pH 2.5, 125ml, Item #: ANC125
 Biebrich Scarlet - Acid Fuchsin Solution, 125ml, Item #: BSU125
 Phosphotungstic Acid Solution (5%), 250ml, Item #: PGC250
 Yellow Stain Solution, 125ml, Item #: YSS125

MPS-2 Kit Contents:

Hematoxylin Solution (5%), 60ml, Item #: HSV60
 Ferric Chloride Solution (10%), 30 ml, Item #: FCC30
 Lugol's Iodine Solution, 30ml, Item #: LIS30
 Ferric Chloride (2%) Differentiating Solution, 60ml, Item #: FCB60
 Sodium Thiosulfate Solution (5%), 30ml, Item #: STB30
 Acetic Acid Solution (1%), 30ml, Item #: AAE30
 Alcian Blue Solution pH 2.5, 30ml, Item #: ANC30
 Biebrich Scarlet - Acid Fuchsin Solution, 30ml, Item #: BSU30
 Phosphotungstic Acid Solution (5%), 60ml, Item #: PGC60
 Yellow Stain Solution, 30ml, Item #: YSS30

<u>Catalog Number</u>	<u>Volume</u>
MPS-2	1 kit(s)
MPS-1	1 kit(s)

Mucicarmine Stain Kit (Modified Southgate's)

Mucicarmine Stain Kit (Modified Southgate's) is intended for use in the histological visualization of acid mucopolysaccharides in tissue sections. This product is useful in distinguishing mucin negative undifferentiated squamous cell lesions from mucin positive adenocarcinomas. In addition, this product will stain the mucopolysaccharide capsule of *Cryptococcus neoformans*.

Mucin: Pink/Red
 Capsule of *Cryptococcus*: Red
 Nuclei: Black/Blue
 Other tissue components: Yellow

SMS-1 Kit Contents:

Hematoxylin, Mayer's, 125ml, Item #: HMM125
 Bluing Reagent, 125ml, Item #: BRT125
 Mucicarmine Solution, 125ml, Item #: SMG125
 Tartrazine Solution, 125ml, Item #: TZQ125

SMS-2 Kit Contents:

Hematoxylin, Mayer's, 30ml, Item #: HMM030
 Bluing Reagent, 30ml, Item #: BRT030
 Mucicarmine Solution, 30ml, Item #: SMG030
 Tartrazine Solution, 30ml, Item #: TZQ030

<u>Catalog Number</u>	<u>Volume</u>
SMS-2	100 Slides
SMS-1	1 kit(s)

Oil Red O Stain Kit (For Fat)

Oil Red O Stain Kit (For Fat) is intended for use in the histological visualization of fat cells and neutral fat. This kit may be used ONLY on frozen tissue sections, fresh smears, or touch preps.

Fat Cells: Red
 Neutral Fat: Red
 Nuclei: Blue

ORK-1 Kit Contents:

Propylene Glycol, 500ml, Item #: PRG500
 Oil Red O Solution, 125ml, Item #: ORG125
 Hematoxylin, Mayer's (Lillie's Mod.), 125ml, Item #: HMM125

ORK-2 Kit Contents:

Propylene Glycol, 60ml x2, Item #: PRG060
 Oil Red O Solution, 30ml, Item #: ORG030
 Hematoxylin, Mayer's (Lillie's Mod.), 30ml, Item #: HMM030
 Graduated Mixing Vial, 1 ea

<u>Catalog Number</u>	<u>Volume</u>
ORK-2	100 Slides
ORK-1	1 kit(s)

Orcein Stain Kit (For Hepatitis B and Elastic Fibers)

The Orcein Stain may be used in histology procedures for the visualization of Hepatitis B surface Antigen (HBsAg), elastic fibers, and copper associated proteins. HBsAg appears as irregular shaped aggregates in the cytoplasmic region of the cells. This reagent may be used on formalin-fixed, paraffin-embedded sections.

HBsAg: Dark Red/Brown
 Elastic Fibers: Dark Red/Brown
 Copper Assoc. Proteins: Dark Red/Brown
 Background: Light Reddish/Purple

HBK-1 Kit Contents:

Potassium Permanganate Sol. (5%), 30ml, Item #: PPG030
 Sulfuric Acid Solution (3%), 30ml, Item #: SAQ030
 Oxalic Acid Solution (2%), 125ml, Item #: OQB125
 Orcein Solution, 125ml, Item #: OAA125
 Differentiating Solution, 125ml, Item #: DSA125

HBK-2 Kit Contents:

Potassium Permanganate Sol. (5%), 30ml, Item #: PPG030
 Sulfuric Acid Solution (3%), 30ml, Item #: SAQ030
 Oxalic Acid Solution (2%), 30ml, Item #: OQB030
 Orcein Solution, 30ml x2, Item #: OAA030
 Differentiating Solution, 30ml, Item #: DSA030

<u>Catalog Number</u>	<u>Volume</u>
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HBK-2	1 kit(s)
HBK-1	1 kit(s)

Papanicolaou (PAP) Stain Kit

The Papanicolaou (PAP) Stain Kit is designed to differentiate between a variety of cells in vaginal smears for detection of vaginal, uterine and cervical cancer. In addition, this procedure is valuable for staining a variety of other bodily secretions and cell smears. The procedure was developed in the early 1940's by George Papanicolaou.

Nuclei: Blue
 High Keratin Cells: Orange
 Superficial Cells: Pink
 Erythrocytes: Dark Pink
 Parabasal Cells: Blue/Green
 Intermediate Cells: Blue/Green
 Metaplastic Cells: May contain both Blue/Green and Pink.

PAP-1 Kit Contents:

Hematoxylin, Mayer's (Lillie's Modification), 500ml, Item #: HMM500
 OG-6 Solution, 500ml, Item #: OGA500
 EA-50 Stain Solution, 500ml, Item #: EAC500

PAP-2 Kit Contents:

Hematoxylin, Mayer's (Lillie's Modification), 30ml, Item #: HMM030
 OG-6 Solution, 30ml, Item #: OGA030
 EA-50 Stain Solution, 30ml, Item #: EAC030

PAP-3 Kit Contents:

Hematoxylin, Mayer's (Lillie's Modification), 1000ml, Item #: HMM999
 OG-6 Solution, 1000ml, Item #: OGA999
 EA-50 Stain Solution, 1000ml, Item #: EAC999

<u>Catalog Number</u>	<u>Volume</u>
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PAP-2	1 kit(s)
PAP-1	500 ml ea.
PAP-3	1000 ml ea.

Periodic Acid Schiff (PAS) Diastase Stain Kit

The Periodic Acid Schiff (PAS) Diastase Stain Kit is intended for use in histological demonstration of lymphocytes and mucopolysaccharides. The α -Amylase digestion step acts on glycogen to break it into smaller sugars that are then washed off the tissue section allowing visual comparison of digested and undigested slides. The PAS reaction in tissue sections is useful for the demonstration of mucopolysaccharides.

PAS Positive Material: Magenta
Nuclei: Blue

PAD-1 Kit Contents:

Alpha-Amylase Solution (1%), 250ml, Item #: AAS250
Periodic Acid Solution, 250ml, Item #: PAQ250
Schiff's Solution, 250ml, Item #: SRF250
Hematoxylin, Mayer's, 125ml x2, Item #: HMM125
Bluing Reagent, 125ml x2, Item #: BRT125

PAD-2 Kit Contents:

Alpha-Amylase Solution (1%), 30ml, Item #: AAS030
Periodic Acid Solution, 30ml, Item #: PAQ030
Schiff's Solution, 30ml, Item #: SRF030
Hematoxylin, Mayer's, 30ml, Item #: HMM030
Bluing Reagent, 30ml, Item #: BRT030

<u>Catalog Number</u>	<u>Volume</u>
PAD-2	1 kit(s)
PAD-1	1 kit(s)

Periodic Acid Schiff (PAS) for Fungus Stain Kit

The Periodic Acid Schiff (PAS) for Fungus Stain Kit is intended for use in histological demonstration of fungal organisms in tissue sections. The PAS reaction is also useful in the demonstration of lymphocytes and mucopolysaccharides. The staining patterns of the lymphocytes are helpful in making therapeutic decisions in established cases of lymphocytic leukemia.

Fungal Organisms: Magenta
PAS Positive Material: Magenta
Nuclei: Green/Blue

PASF-1 Kit Contents:

Periodic Acid Solution, 250ml, Item #: PAQ250
Schiff's Solution, 250ml, Item #: SRF250
Light Green Solutino, 125ml, Item #: LGA125

PASF-2 Kit Contents:

Periodic Acid Solution, 30ml, Item #: PAQ030
Schiff's Solution, 30ml, Item #: SRF030
Light Green Solutino, 30ml, Item #: LGA030

<u>Catalog Number</u>	<u>Volume</u>
PASF-2	1 kit(s)
PASF-1	1 kit(s)

Periodic Acid Schiff (PAS) Stain Kit

The Periodic Acid Schiff (PAS) Stain Kit is intended for use in histological demonstration of lymphocytes and mucopolysaccharides. The staining pattern of the lymphocytes are helpful in making therapeutic decisions in established cases of lymphocytic leukemia. The PAS reaction in tissue sections is useful for the demonstration of mucopolysaccharides. PAS staining may also be used for the demonstration of fungal organisms in tissue sections.

PAS Positive Material: Magenta
Nuclei: Black/Blue

PAS-1 Kit Contents:

Periodic Acid Solution, 250ml, Item #: PAQ250
Schiff's Solution, 250ml, Item #: SRF250
Hematoxylin, Mayer's, 125ml, Item #: HMM125
Bluing Reagent, 125ml, Item #: BRT125

PAS-2 Kit Contents:

Periodic Acid Solution, 30ml, Item #: PAQ030
Schiff's Solution, 30ml, Item #: SRF030
Hematoxylin, Mayer's, 30ml, Item #: HMM030
Bluing Reagent, 30ml, Item #: BRT030

PAS-500 Kit Contents:

Periodic Acid Solution, 500ml, Item #: PAQ500
Schiff's Solution, 500ml, Item #: SRF500
Hematoxylin, Mayer's, 500ml, Item #: HMM500
Bluing Reagent, 500ml, Item #: BRT500

<u>Catalog Number</u>	<u>Volume</u>
PAS-2	30 ml ea.
PAS-1	1 kit(s)
PAS-500	500 ml ea.

Periodic Acid Schiff (PAS) with Light Green Stain Kit

The Periodic Acid Schiff (PAS) Stain Kit is intended for use in histological demonstration of lymphocytes and mucopolysaccharides. The staining pattern of the lymphocytes are helpful in making therapeutic decisions in established cases of lymphocytic leukemia. The PAS reaction in tissue sections is useful for the demonstration of mucopolysaccharides. PAS staining may also be used for the demonstration of fungal organisms in tissue sections.

PAS Positive Material: Magenta
Nuclei: Black/Blue

PASL-1 Kit Contents:

Periodic Acid Solution, 250ml, Item #: PAQ250
Schiff's Solution, 250ml, Item #: SRF250
Hematoxylin, Mayer's, 125ml, Item #: HMM125
Bluing Reagent, 125ml, Item #: BRT125
Light Green Solution, 125ml, Item #: LGA125

PASL-2 Kit Contents:

Periodic Acid Solution, 30ml, Item #: PAQ030
Schiff's Solution, 30ml, Item #: SRF030
Hematoxylin, Mayer's, 30ml, Item #: HMM030
Bluing Reagent, 30ml, Item #: BRT030
Light Green Solution, 30ml, Item #: LGA030

<u>Catalog Number</u>	<u>Volume</u>
PASL-2	1 kit(s)
PASL-1	1 kit(s)

Picro-Sirius Red Stain Kit (For Cardiac Muscle)

The Picro-Sirius Red Stain Kit (For Cardiac Muscle) is intended for use in the histological visualization of thin septa and collagen fibers. This modification of the Picro-Sirius Red stain eliminates the yellow cytoplasmic staining that can obscure thin collagenous septa. Using this procedure easily allows viewing of collagenous septa as thin as 0.2-0.5 microns. The PSR stain may be viewed using standard light microscopy or polarized light resulting in birefringence of the collagen fibers.

Light Microscopy

Collagen: Red
 Septa: Red
 Cytoplasm: Colorless to Slightly Yellow

Polarized Light Microscopy

Collagen Fibers: Yellow-Orange and Green Birefringence

SRC-1 Kit Contents:

Phosphomolybdic Acid Solution (0.2%), 250ml, Item #: PQA250
 Picro-Sirius Red Solution, 250ml, Item #: SRS250
 Acetic Acid Solution (0.5%), 250ml, Item #: AAD250

<u>Catalog Number</u>	<u>Volume</u>
SRC-1	1 kit(s)

Picro-Sirius Red Stain Kit (For Collagen)

The Picro-Sirius Red Stain Kit (For Collagen) is intended for use in the histological visualization of collagen I and III fibers in addition to muscle in tissue sections. The PSR stain may be viewed using standard light microscopy or polarized light resulting in birefringence of the collagen fibers.

Light Microscopy

Collagen: Red
 Muscle Fibers: Yellow
 Cytoplasm: Yellow

Polarized Light Microscopy

Collagen Fibers: Yellow-Orange and Green Birefringence

PSR-1 Kit Contents:

Picro-Sirius Red Solution, 250ml, Item #: SRS250
 Acetic Acid Solution (0.5%), 250ml x2, Item #: AAD250

PSR-2 Kit Contents:

Picro-Sirius Red Solution, 30ml, Item #: SRS030
 Acetic Acid Solution (0.5%), 30ml x2, Item #: AAD030

<u>Catalog Number</u>	<u>Volume</u>
PSR-2	1 kit(s)
PSR-1	1 kit(s)

Pneumocystis Stain Kit

The Pneumocystis Stain Kit is intended for use in the histological visualization of Pneumocystis carinii in cytology smears and paraffin tissue sections. Pneumocystis carinii is an opportunistic pathogen that causes severe pulmonary disease in humans, dogs, rats, mice and other vertebrate species with acquired, induced, or inherited immune deficiency syndromes. In addition, this procedure will demonstrate Actinomyces and related species, Nocardia asteroides, and certain encapsulated bacteria.

Pneumocystis carinii: Violet / Purple

Connective Tissue: Blue / Green

Erythrocytes: Yellow

Mucin: Rose / Purple

Cartilage: Rose / Purple

PCS-1 Kit Contents:

Cresyl Echt Violet Solution (0.1%), 125ml, Item #: CEA125
 Naphthol Yellow S Solution, 125ml, Item #: NYS125
 Staining Jar, 60ml

PCS-2 Kit Contents:

Cresyl Echt Violet Solution (0.1%), 30ml, Item #: CEA030
 Naphthol Yellow S Solution, 30ml, Item #: NYS030

<u>Catalog Number</u>	<u>Volume</u>
PCS-2	100 Slides
PCS-1	1 kit(s)

PTAH Stain Kit (Phosphotungstic Acid Hematoxylin)

This kit is designed to demonstrate many collagen, fibrin, muscle striations, cilia and glial fibers without using Zenker's Fixative as a mordant.

Muscle Striations, Fibrin: Blue to Purple

Glial Fibers, Cilia: Blue to Purple

Nuclei: Blue to Purple

Collagen, Elastic Fibers: Light Orange/Salmon to Brownish/Red

PTA-1 Kit Contents:

Zinc Chloride Solution (10%), 500ml, Item #: ZCS500
 Ferric Ammonium Sulfate, 125ml, Item #: FAS125
 PTAH Solution, 125ml, Item #: HPA125

PTA-2 Kit Contents:

Zinc Chloride Solution (10%), 30ml, Item #: ZCS030
 Ferric Ammonium Sulfate, 30ml, Item #: FAS030
 PTAH Solution, 30ml x2, Item #: HPA030

<u>Catalog Number</u>	<u>Volume</u>
PTA-2	1 kit(s)
PTA-1	1 kit(s)

Quick-Dip Differential Stain Kit

The Quick-Dip Differential Stain Kit provides three reagents for rapid staining of blood smears. Methanol is used to quickly fix smears, followed by differential staining with buffered xanthen and thiazine dyes.

Expected Results:

Neutrophils: Violet nuclei with dark violet granules and pink cytoplasmic granules.

Eosinophils: Violet nuclei with dark violet granules and bright red cytoplasmic granules.

Monocytes: Violet nuclei with light blue cytoplasm.

Lymphocytes: Violet nuclei with dark violet granules and light blue cytoplasm.

Basophils: Violet nuclei with light blue cytoplasm.

Erythrocytes: Pink to yellowish-red.

<u>Catalog Number</u>	<u>Volume</u>
QDK-1	500 ml ea.
QDK-GL	1 Gal.

Reticulum Stain Kit

The Reticulum Stain Kit is intended for use in histological demonstration of reticular fibers. The main function of reticular fibers is to provide support. They are normally found throughout the body, particularly in liver, lymph node, spleen and kidney. Ammoniacal silver stains are the most commonly used methods for demonstration of reticular fibers.

Reticulum: Black

Nuclei: Green

GRT-1 Kit Contents:

Potassium Permanganate Solution (1%), 125ml, Item #: PPE125
 Potassium Metabisulfite Solution (3%), 125ml, Item #: PMS125
 Ferric Ammonium Sulfate Solution (3%), 125ml, Item #: FAT125
 Formalin Solution (20%), 125ml, Item #: FRL125
 Gold Chloride Solution (0.1%), 125ml, Item #: GCS125
 Sodium Thiosulfate Solution (5%), 125ml, Item #: STB125
 Light Green Solution, 125ml, Item #: LGA125
 Sodium Hydroxide Solution (3%), 125ml, Item #: SHC125
 Silver Nitrate Solution (10%), 10ml x5, Item #: SNX010

GRT-2 Kit Contents:

Potassium Permanganate Solution (1%), 15ml, Item #: PPE015
 Potassium Metabisulfite Solution (3%), 15ml, Item #: PMS015
 Ferric Ammonium Sulfate Solution (3%), 15ml, Item #: FAT015
 Formalin Solution (20%), 15ml, Item #: FRL015
 Gold Chloride Solution (0.1%), 15ml, Item #: GCS015
 Sodium Thiosulfate Solution (5%), 15ml, Item #: STB015
 Light Green Solution, 15ml, Item #: LGA015
 Sodium Hydroxide Solution (3%), 10ml x2, Item #: SHC010
 Silver Nitrate Solution (10%), 10ml x, Item #: SNX010

<u>Catalog Number</u>	<u>Volume</u>
GRT-2	1 kit(s)
GRT-1	1 kit(s)

Reticulum Stain Kit (Modified Gomori's)

The Reticulum Stain Kit (Modified Gomori's) is intended for use in histological demonstration of reticular fibers. The main function of reticular fibers is to provide support. They are normally found throughout the body, particularly in liver, lymph node, spleen and kidney. Ammoniacal silver stains are the most commonly used methods for demonstration of reticular fibers.

Reticulum: Gray/Black

Nuclei: Pink/Red

GRS-1 Kit Contents:

Potassium Permanganate Solution, 250ml, Item #: PPD250
 Sulfuric Acid Solution (1N), 15ml, Item #: SAQ015
 Potassium Metabisulfite Solution (3%), 125ml, Item #: PMS125
 Ferric Ammonium Sulfate Solution, 125ml, Item #: FAS125
 Silver Nitrate Solution (10%), 65ml, Item #: SNX065
 Potassium Hydroxide Solution (10%), 15ml, Item #: PHC015
 Formalin Solution (20%), 125ml, Item #: FRL125
 Gold Chloride Solution (0.2%), 125ml, Item #: GCB125
 Sodium Thiosulfate Solution (5%), 125ml, Item #: STB125
 Nuclear Fast Red Solution, 125ml, Item #: NFS125

GRS-2 Kit Contents:

Potassium Permanganate Solution, 60ml, Item #: PPD060
 Sulfuric Acid Solution (1N), 4ml, Item #: SAQ004
 Potassium Metabisulfite Solution (3%), 30ml, Item #: PMS030
 Ferric Ammonium Sulfate Solution, 30ml, Item #: FAS020
 Silver Nitrate Solution (10%), 20ml, Item #: SNX004
 Potassium Hydroxide Solution (10%), 4ml, Item #: PHC004
 Formalin Solution (20%), 30ml, Item #: FRL030
 Gold Chloride Solution (0.2%), 30ml, Item #: GCB030
 Sodium Thiosulfate Solution (5%), 30ml, Item #: STB030
 Nuclear Fast Red Solution, 30ml, Item #: NFS030

<u>Catalog Number</u>	<u>Volume</u>
GRS-2	100 Slides
GRS-1	1 kit(s)

Safranin O Stain Kit for Cartilage

Safranin O (0.1%) is commonly used to demonstrate Glycosaminoglycans (GAGs) in FFPE cartilage sections. Weigert's Hematoxylin is provided to stain nuclei and Fast Green FCF for bluish green background staining.

<u>Catalog Number</u>	<u>Volume</u>
SOC-1	1 kit(s)

Steiner Stain Kit (For Spirochetes)

The Steiner Stain Kit (For Spirochetes) is designed for demonstrating Fungi, Helicobacter Pylori, Legionella pneumophila, and Spirochete infected tissue. Kit may be used on formalin fixed, paraffin-embedded tissue sections.

Spirochetes: Black to Brown
 Helicobacter Pylori: Black to Brown
 Fungi: Black to Brown
 Legionella pneumophila: Black to Brown
 Background: Yellow to Tan

SSK-1 Kit Contents:

Oxidizer Solution, 125ml, Item #: SOS125
 Zinc Formalin Solution, 125ml, Item #: ZFN125
 Gum Mastic Solution, 125ml, Item #: GUM125
 Hydroquinone, 1.5gm, Item #: HFS001.5
 Silver Nitrate Solution (0.2%), 125ml, Item #: SNS125
 Silver Nitrate Solution (1%), 9ml, Item #: SNY009

<u>Catalog Number</u>	<u>Volume</u>
SSK-1	1 kit(s)

Sudan Black B Stain Kit (For Fat)

The Sudan Black B kit is intended for use in the histological visualization of fat cells and neutral fat. This kit may be used ONLY on frozen tissue sections, fresh smears, or touch preps as xylenes and alcohols will dissolve fat deposits.

SBK-1 Kit Contents:

Propylene Glycol, 500ml, Item #: PRG500
 Sudan Black B Solution, 125ml, Item #: SBG125
 Nuclear Fast Red Solution, 125ml, Item #: NFS125

<u>Catalog Number</u>	<u>Volume</u>
SBK-1	1 kit(s)

Trichrome Stain Kit (Modified Gomori's)

The Trichrome Stain Kit (Modified Gomori's) is intended for use in the histological visualization of collagenous connective tissue fibers in tissue sections. The Gomori Trichrome is a more simplified procedure than other more traditional trichromes. Additionally, this procedure is useful in the assessment of the degree of fibrosis in liver biopsies.

Collagen: Blue
 Muscle Fibers: Red
 Nuclei: Black/Blue

TRG-1 Kit Contents:

Bouin's Fluid, 125ml, Item #: BNF125
 Hematoxylin, Weigert's Iron (Part A), 125ml, Item #: HWI-A-125
 Hematoxylin, Weigert's Iron (Part B), 125ml, Item #: HWI-B-125
 Trichrome Stain Solution (Blue), 125ml, Item #: TGB125
 Acetic Acid Solution (0.5%), 250ml, Item #: AAD250
 Acid Alcohol Solution (0.5%), 250ml, Item #: AAL250

TRG-2 Kit Contents:

Bouin's Fluid, 30ml x2, Item #: BNF030
 Hematoxylin, Weigert's Iron (Part A), 30ml, Item #: HWI-A-030
 Hematoxylin, Weigert's Iron (Part B), 30ml, Item #: HWI-B-030
 Trichrome Stain Solution (Blue), 30ml, Item #: TGB030
 Acetic Acid Solution (0.5%), 60ml, Item #: AAD060
 Acid Alcohol Solution (0.5%), 60ml, Item #: AAL060

TRG-500 Kit Contents:

Bouin's Fluid, 500ml, Item #: BNF500
 Hematoxylin, Weigert's Iron (Part A), 500ml, Item #: HWI-A-500
 Hematoxylin, Weigert's Iron (Part B), 500ml, Item #: HWI-B-500
 Trichrome Stain Solution (Blue), 500ml, Item #: TGB500
 Acetic Acid Solution (0.5%), 500ml, Item #: AAD500
 Acid Alcohol Solution (0.5%), 500ml, Item #: AAL500

<u>Catalog Number</u>	<u>Volume</u>
TRG-2	100 Slides
TRG-1	1 kit(s)
TRG-500	500 ml ea.

Trichrome Stain Kit (Modified Masson's)

The Trichrome Stain Kit (Modified Masson's) is intended for use in histology laboratories for the staining and subsequent visualization of collagenous connective tissue fibers in tissue sections. This Trichrome Special Stain kit may be used on formalin-fixed, paraffin-embedded sections.

Collagen: Blue
Muscle Fibers: Red
Nuclei: Black/Blue

TRM-1 Kit Contents:

Bouin's Fluid, 125ml, Item #: BNF125
Hematoxylin, Weigert's Iron (Part A), 125ml, Item #: HWI-A-125
Hematoxylin, Weigert's Iron (Part B), 125ml, Item #: HWI-B-125
Biebrich Scarlet/Acid Fuchsin Solution, 125ml, Item #: BSU125
Phosphomolybdic/Phosphotungstic Acid Solution, 125ml, Item #: PPA125
Aniline Blue Solution, 125ml, Item #: ABP125
Acetic Acid Solution (1%), 125ml, Item #: AAE125

TRM-2 Kit Contents:

Bouin's Fluid, 30ml x2, Item #: BNF030
Hematoxylin, Weigert's Iron (Part A), 30ml, Item #: HWI-A-030
Hematoxylin, Weigert's Iron (Part B), 30ml, Item #: HWI-B-030
Biebrich Scarlet/Acid Fuchsin Solution, 30ml, Item #: BSU030
Phosphomolybdic/Phosphotungstic Acid Solution, 30ml, Item #: PPA030
Aniline Blue Solution, 30ml, Item #: ABP030
Acetic Acid Solution (1%), 30ml, Item #: AAE030

TRM-500 Kit Contents:

Bouin's Fluid, 500ml, Item #: BNF500
Hematoxylin, Weigert's Iron (Part A), 500ml, Item #: HWI-A-500
Hematoxylin, Weigert's Iron (Part B), 500ml, Item #: HWI-B-500
Biebrich Scarlet/Acid Fuchsin Solution, 500ml, Item #: BSU500
Phosphomolybdic/Phosphotungstic Acid Solution, 500ml, Item #: PPA500
Aniline Blue Solution, 500ml, Item #: ABP500
Acetic Acid Solution (1%), 500ml, Item #: AAE500

<u>Catalog Number</u>	<u>Volume</u>
TRM-2	30 ml ea.
TRM-1	125 ml ea.
TRM-500	500 ml ea.

Trichrome Stain Kit (with Iodine)

The Trichrome Stain Kit (with Iodine) is intended for use in the histological visualization and differentiation of collagen in tissue sections. Gram's Iodine is offered as an alternative to Bouin's Fluid post fixative, and is significantly less hazardous. Iodine post-fixation improves the color and staining of collagen and is comparable to trichrome kits that utilize Bouin's. No nuclear counterstain is included with this kit. This kit is intended for use on formalin-fixed sections.

Collagen: Blue
Muscle Fibers: Red
Nuclei: Red

TIM-1 Kit Contents:

Gram's Iodine, 125ml, Item #: GIN125
Biebrich Scarlet / Acid Fuchsin Solution, 125ml, Item #: BSU125
Phosphomolybdic/Phosphotungstic Acid Solution, 125ml, Item #: PPA125
Aniline Blue Solution, 125ml, Item #: ABP125
Acetic Acid Solution (1%), 125ml, Item #: AAE125

<u>Catalog Number</u>	<u>Volume</u>
TIM-2	30 ml ea.
TIM-1	1 kit(s)

Twort's Counterstain Kit

The Twort's Counterstain Kit is intended for use in histology procedures such as the Gram Stain to provide contrast for easier visualization of various cell components in tissue sections.

Nuclei: Red
Cytoplasm: Light Green

TCK-1 Kit Contents:

Twort's Neutral Red (Part A), 125ml, Item #: TCA125
Twort's Fast Green (Part B), 30ml, Item #: TCB030
Acetic Alcohol Solution (2%), 250ml, Item #: AAF250

<u>Catalog Number</u>	<u>Volume</u>
TCK-1	1 kit(s)

Twort's Gram Stain Kit

The Twort's Gram Stain Kit is designed for positive and negative gram bacteria differentiation in formalin fixed paraffin embedded tissues. Gram negative bacteria stain pink to red, gram positive stain blue, and the background is stained light green.

Gram Positive Bacteria:Blue
Nuclei and Gram Negative Bacteria:Red
Background:Light Green

TGS-1 Kit Contents:

Gentian Violet Solution, 125ml, Item #: GVS125
Lugol's Iodine Solution, 125ml, Item #: LIS125
Gram's Decolorizer Solution, 125ml, Item #: GDS125
Twort's Neutral Red (Part A), 125ml, Item #: TCA125
Twort's Fast Green (Part B), 30ml, Item #: TCB030

<u>Catalog Number</u>	<u>Volume</u>
TGS-1	1 kit(s)

Warthin-Starry Stain Kit

The Warthin-Starry Stain Kit is intended for use in the visualization of Spirochetes, Helicobacter pylori, Legionella pneumophila, and Cat Scratch Fever bacteria. This kit may be used on formalin-fixed, paraffin-embedded sections.

Helicobacter pylori: Black
 Legionella pneumophila: Black
 Spirochetes: Black
 Cat Scratch Fever Bacteria: Black
 Klebsiella: Brown/Black
 Nuclei: Brown
 Background: Yellow

WSS-1 Kit Contents:
 SpiroPrep, 125ml, Item #: SSE125
 Gelatin (4%), Acidulated, 65ml x2, Item #: GSA065
 Silver Nitrate Solution (0.5%), Acidulated, 125ml, Item #: SNB125
 Hydroquinone Solution (0.1%), Acidulated, 30ml x2, Item #: HSA030
 Silver Nitrate Solution (2%), Acidulated, 30ml, Item #: SNA030

<u>Catalog Number</u>	<u>Volume</u>
WSS-1	1 kit(s)

Wright-Giemsa Stain Kit

Wright-Giemsa Stain Kit is intended to be used for differential staining of blood smears, bone marrow and blood parasites.

Erythrocytes: Pink-Tan
 Leukocytes: Blue-Purple
 Neutrophils: Light Purple granules in cytoplasm.
 Eosinophils: Bright Red-Red-Orange granules in cytoplasm.
 Basophils: Deep Purple granules in cytoplasm.
 Platelets: Violet-Purple granules in light blue cytoplasm.

WGK-1 Kit Contents:
 Wright-Giemsa Solution, 500ml, Item #: WGS500
 Phosphate Buffer Solution pH 6.8, 500ml x2, Item #: PBM500

WGK-2 Kit Contents:
 Wright-Giemsa Solution, 30ml, Item #: WGS030
 Phosphate Buffer Solution pH 6.8, 60ml x2, Item #: PBM060

<u>Catalog Number</u>	<u>Volume</u>
WGK-2	1 kit(s)
WGK-1	1 kit(s)

Special Stain Individual Reagents**Acetate Buffer Solution, pH 8.0**

Used in the Microwave Copper Stain.

<u>Catalog Number</u>	<u>Volume</u>
SAB500	500 ml
SAB999	1000 ml

Acetic Acid Solution (0.5%)

Acetic Acid 0.5% in DI/Distilled water.

<u>Catalog Number</u>	<u>Volume</u>
AAD125	125 ml
AAD250	250 ml
AAD500	500 ml
AAD999	1000 ml

Acetic Acid Solution (1%)

Acetic Acid 1.0% in deionized and distilled water.

<u>Catalog Number</u>	<u>Volume</u>
AAE125	125 ml
AAE500	500 ml
AAE999	1000 ml

Acetic Acid Solution (12%)

Acetic Acid 12% in deionized/distilled water.

<u>Catalog Number</u>	<u>Volume</u>
AAK500	500 ml
AAK999	1000 ml

Acetic Acid Solution (3%)

Acetic Acid Solution (3%) in deionized and distilled water.

<u>Catalog Number</u>	<u>Volume</u>
AAG500	500 ml
AAG999	1000 ml
AAG3800	1 Gal.

Acetic Alcohol Solution (2%)

Acetic Acid 2% in ACS reagent grade ethyl alcohol.

<u>Catalog Number</u>	<u>Volume</u>
AAF250	250 ml
AAF500	500 ml
AAF999	1000 ml

Acid Alcohol Solution (0.5%)

<u>Catalog Number</u>	<u>Volume</u>
AAL500	500 ml
AAL999	1000 ml

Acid Alcohol Solution (1%)

Used in Fite's Stain Kit (Catalog# FLS-1)

<u>Catalog Number</u>	<u>Volume</u>
AAM500	500 ml
AAM999	1000 ml

Alcian Blue Solution, pH 1.0

Alcian Blue Solution, pH 1.0 is intended for use in the histological visualization of strongly sulfated mucosubstances.

Strongly Sulfated Mucosubstances: Blue

<u>Catalog Number</u>	<u>Volume</u>
ANA250	250 ml
ANA500	500 ml
ANA999	1000 ml

Alcian Blue Solution, pH 2.5

Application: For demonstration of the acid muco polysaccharides.

Results: Acid mucins are colored blue.

Control: Intestine

<u>Catalog Number</u>	<u>Volume</u>
ANC030	30 ml
ANC250	250 ml
ANC500	500 ml
ANC999	1000 ml
ANC3800	1 Gal.

Alcian Yellow Solution

Used in Alcian Yellow for H. Pylori.

<u>Catalog Number</u>	<u>Volume</u>
ANY125	125 ml
ANY500	500 ml
ANY999	1000 ml
ANY3800	1 Gal.

Alcohol, Reagent (70%)

<u>Catalog Number</u>	<u>Volume</u>
EAS500	500 ml
EAS999	1000 ml

Alpha Amylase Solution (1%)

Component used in the Periodic Acid Schiff (PAS) Diastase Stain Kit (Cat# PAD-1).

<u>Catalog Number</u>	<u>Volume</u>
AAS250	250 ml
AAS500	500 ml
AAS999	1000 ml

Aniline Blue Solution

Stains connective tissue and basement membranes. Used in Masson's Trichrome staining procedure (Cat# TRM-1).

<u>Catalog Number</u>	<u>Volume</u>
ABP125	125 ml
ABP500	500 ml
ABP999	1000 ml

Astra Blue Solution

Astra Blue Solution is designed to stain mast cells bright blue.

<u>Catalog Number</u>	<u>Volume</u>
AST125	125 ml
AST500	500 ml

Biebrich Scarlet/Acid Fuchsin Solution

Used in Masson's Trichrome.

<u>Catalog Number</u>	<u>Volume</u>
BSU125	125 ml
BSU500	500 ml
BSU999	1000 ml

Borax Solution

Component of GMS Stain Kit (catalog # KAA-1)

<u>Catalog Number</u>	<u>Volume</u>
BOR015	15 ml
BOR125	125 ml
BOR500	500 ml
BOR999	1000 ml

Bouin's Fluid

Bouin's Fluid is a fixative useful for several routine procedures. It contains formaldehyde and picric acid for both cytoplasmic and chromatin fixation and facilitates excellent H&E staining. It has also been recommended for any general fixation procedures and may be used as a substitute for Zenker's Fluid. It is also used as a post-fixation step that is critical for the bright coloration demonstrated with Trichrome special stain procedures.

<u>Catalog Number</u>	<u>Volume</u>
BNF125	125 ml
BNF500	500 ml
BNF999	1000 ml
BNF3800	1 Gal.

Brilliant Cresyl Blue (1.5% in 0.85% Saline)

Brilliant Cresyl Blue (1.5% in 0.85% Saline) is a supravital hematology stain for counting reticulocytes in peripheral blood smears. The number of reticulocytes in the blood is a simple measure of erythropoietic performance. Reticulocytes are immature erythrocytes that contain nuclear remnants of basophilic ribonucleoproteins which decreases as the reticulocyte matures. When stained, reticulocytes appear to contain dark blue granules or filaments.

Reticulocytes: Blue/Green with Dark Blue Granules.

Erythrocytes: Blue/Green

Leukocytes: Light Blue

<u>Catalog Number</u>	<u>Volume</u>
BCS500	500 ml
BCS999	1000 ml
BCS3800	1 Gal.

Carbol Fuchsin (Kinyoun's)

The Carbol Fuchsin Solution (Kinyoun's) is intended for use in the histological visualization of Acid Fast Bacteria and Tubercle Bacilli. This reagent is a rapid 2-5 minute procedure. The lipid capsule of the acid-fast organism takes up carbol fuchsin and resists decolorization.

Acid Fast Organisms: Bright Red

<u>Catalog Number</u>	<u>Volume</u>
CFK500	500 ml
CFK999	1000 ml

Carbol Fuchsin Counterstain

Carbol Fuchsin Counterstain is a component of the Gram Stain Kit, catalog # GSK-1.

<u>Catalog Number</u>	<u>Volume</u>
CFX125	125 ml
CFX500	500 ml
CFX999	1000 ml

Carbol Fuchsin Solution

A modified Ziehl-Neelson formulation used for staining acid fast bacteria. This stain is a rapid 15-minute procedure. The lipid capsule of the acid-fast organism takes up carbol fuchsin and resists decolorization.

Acid Fast Organisms: Bright Red

<u>Catalog Number</u>	<u>Volume</u>
CFZ125	125 ml
CFZ500	500 ml
CFZ999	1000 ml

Carbol Gentian Violet

Stains acid fast bacteria.

<u>Catalog Number</u>	<u>Volume</u>
CGV500	500 ml
CGV999	1000 ml

Chromic Acid Solution

Component of GMS Stain Kit (catalog # KAA-1)

<u>Catalog Number</u>	<u>Volume</u>
CHR125	125 ml
CHR500	500 ml
CHR999	1000 ml

Colloidal Iron Stock Solution

Used in the Colloidal Iron staining procedure.

<u>Catalog Number</u>	<u>Volume</u>
CIS125	125 ml
CIS500	500 ml
CIS999	1000 ml

Congo Red Solution

Amyloid stain.

<u>Catalog Number</u>	<u>Volume</u>
CRA500	500 ml
CRA999	1000 ml

Cresyl Echt Violet (1.0%, Aqueous)

Cresyl Violet Acetat (1.0%, aqueous) is designed for staining Nissl substance in neurons on formalin fixed, paraffin-embedded tissue. Nissl granules are purple, nuclei of neuroglia and endothelial cells are slightly bluer than Nissl granules.

Nissl Substance: Violet
Neuroglia Nuclei: Violet to Dark Blue

<u>Catalog Number</u>	<u>Volume</u>
CEB500	500 ml
CEB999	1000 ml

Cresyl Echt Violet Solution (0.1%)

Cresyl Echt Violet Solution (0.1%) is designed for staining Nissl substance in neurons on formalin fixed, paraffin-embedded tissue. Nissl granules are purple, nuclei of neuroglia and endothelial cells are slightly bluer than Nissl granules.

<u>Catalog Number</u>	<u>Volume</u>
CEA125	125 ml
CEA500	500 ml
CEA999	1000 ml

Crystal Violet Solution

Stains Nissel granules and basophilia.

<u>Catalog Number</u>	<u>Volume</u>
CVA500	500 ml
CVA999	1000 ml

Differentiating Solution (For Orcein Stain)

<u>Catalog Number</u>	<u>Volume</u>
DSA125	125 ml
DSA500	500 ml

EA-50 Stain Solution

EA-50 is a cytologic stain routinely used in diagnostic cytology to aid in the identification and classification of exfoliative cells. The stain is used for examining exfoliative cells of vaginal, cervical, sputum, as well as other body secretions. Commonly used in combination with hematoxylin.

Results:

Nuclei: Blue
Cytoplasm: Various shades of Pink or Green.

<u>Catalog Number</u>	<u>Volume</u>
EAC500	500 ml
EAC999	1000 ml
EAC3800	1 Gal.

EA-65 Stain Solution

EA-65 is a cytologic stain routinely used in diagnostic cytology to aid in the identification and classification of exfoliative cells. EA-65 is recommended for specimens with large amounts of mucus. The stain is used for examining exfoliative cells of vaginal, cervical, sputum, as well as other body secretions. Commonly used in combination with hematoxylin.

Results:

Nuclei: Blue
Cytoplasm: Various shades of Pink or Green.

<u>Catalog Number</u>	<u>Volume</u>
EAD500	500 ml
EAD999	1000 ml
EAD3800	1 Gal.

Eosin Y Solution (Modified Alcoholic)

Eosin Y Solution (Modified Alcoholic) is intended for use in histology and cytology applications. This newly formulated Eosin provides the benefits of a traditional alcoholic formula with significant improvements in usability. Advantages include lower evaporation rate, better color patterns, reduced tendency to spill over container, hands, and countertops, and improved surface tension to remain on tissue section.

Cytoplasm: Light Pink
Collagen: Pink
Muscle: Pink/Rose
Erythrocytes: Pink/Red
Summary Protocol:

Deparaffinize sections and hydrate
Apply adequate Eosin Y Solution (Modified Alcoholic) incubate for 2-3 minutes
Rinse
Dehydrate slide
Clear slide and mount

<u>Catalog Number</u>	<u>Volume</u>
EYB500	500 ml
EYB999	1000 ml
EYB3800	1 Gal.

Fast Green Solution

Stains collagen and reticular fibers. Manufactured using certified Fast Green FCF and is provided as a single component, Ready-To-Use reagent.

<u>Catalog Number</u>	<u>Volume</u>
FGN125	125 ml
FGN500	500 ml
FGN999	1000 ml

Ferric Ammonium Sulfate Solution (2%)

<u>Catalog Number</u>	<u>Volume</u>
FAS125	125 ml
FAS500	500 ml
FAS999	1000 ml

Ferric Ammonium Sulfate Solution (3%)

<u>Catalog Number</u>	<u>Volume</u>
FAT125	125 ml

Ferric Chloride (10%, Aqueous)

<u>Catalog Number</u>	<u>Volume</u>
FCC125	125 ml
FCC500	500 ml
FCC999	1000 ml

Ferric Chloride (2%) Differentiating Solution

<u>Catalog Number</u>	<u>Volume</u>
FCB125	125 ml
FCB500	500 ml
FCB999	1000 ml

Formalin Solution (20%)

Used in the Reticulum Stain Kit (Cat# GRS-1).

<u>Catalog Number</u>	<u>Volume</u>
FRL125	125 ml
FRL500	500 ml
FRL999	1000 ml

Gelatin (4%), Acidulated

Component of the Warthin-Starry Stain Kit.

<u>Catalog Number</u>	<u>Volume</u>
GSA125	125 ml

Gentian Violet Solution

Gentian Violet Solution is the component of the Gram Stain Kit (catalog# GSK-1) that results in blue staining of the Gram Positive Bacteria. Gentian Violet is intended for the demonstration and differentiation of Gram-positive and Gram-negative bacteria.

<u>Catalog Number</u>	<u>Volume</u>
GVS125	125 ml
GVS500	500 ml
GVS999	1000 ml

Giemsa Stock Solution

Component of the Giemsa Stain Kit (May Grunwald) for blood smears.

<u>Catalog Number</u>	<u>Volume</u>
GGG125	125 ml
GGG500	500 ml
GGG999	1000 ml

Gold Chloride Solution (0.1%)

Used in Gomori's Reticular stain and Gordon & Sweet's Reticular stain.

<u>Catalog Number</u>	<u>Volume</u>
GCS125	125 ml
GCS500	500 ml
GCS999	1000 ml

Gold Chloride Solution (0.2%)

Used in a variety of staining procedures.

<u>Catalog Number</u>	<u>Volume</u>
GCB125	125 ml
GCB500	500 ml
GCB999	1000 ml

Gram's Decolorizer Solution

Component used in the Gram Stain Kit.

<u>Catalog Number</u>	<u>Volume</u>
GDS125	125 ml
GDS500	500 ml
GDS999	1000 ml

Gram's Iodine Solution

Used in the Gram's stain as a mordant for crystal violet in gram positive bacteria. May also be used as a substitute for Bouin's Fluid in trichrome procedures.

<u>Catalog Number</u>	<u>Volume</u>
GIN125	125 ml
GIN500	500 ml
GIN999	1000 ml
GIN3800	1 Gal.

Gum Mastic Solution (2.5%)

<u>Catalog Number</u>	<u>Volume</u>
GUM125	125 ml
GUM500	500 ml

H. Pylori Rapid Stain (1-Step)

The H. Pylori Rapid Stain (1-Step) is a single component reagent that has been developed to identify helicobacter pylori in a procedure that requires less than 10 minutes to complete. Procedure is effective for fresh, frozen, and paraffin embedded sections. Helicobacter Pylori has been shown to be the causative organism in some gastric ulcers.

H. Pylori: Dark Blue/Purple
Cytoplasm: Pink to Red
Background: Violet
Nuclei: Blue

<u>Catalog Number</u>	<u>Volume</u>
HPS030	30 ml
HPS500	500 ml
HPS999	1000 ml

Hematoxylin Solution (5%)

<u>Catalog Number</u>	<u>Volume</u>
HSV250	250 ml
HSV500	500 ml
HSV999	1000 ml

Hematoxylin, Weigert's Iron (Part A)

Component of Hematoxylin, Weigert's Iron Kit.

<u>Catalog Number</u>	<u>Volume</u>
HWI-A-125	125 ml
HWI-A-250	250 ml
HWI-A-500	500 ml
HWI-A-999	1000 ml

Hematoxylin, Weigert's Iron (Part B)

Component of Hematoxylin, Weigert's Iron Kit.

<u>Catalog Number</u>	<u>Volume</u>
HWI-B-125	125 ml
HWI-B-250	250 ml
HWI-B-500	500 ml
HWI-B-999	1000 ml

Hematoxylin, Weigert's Iron Kit

Weigert's Iron Hematoxylin is intended to be used with various special stain kits. Product is supplied as a two component (equal volumes of parts A and B) system that is mixed prior to use and results in black/blue nuclei.

HWI-1 Kit Contents:

Hematoxylin, Weigert's Iron (Part A), 125ml, Item #: HWI-A-125
Hematoxylin, Weigert's Iron (Part B), 125ml, Item #: HWI-B-125

HWI-2 Kit Contents:

Hematoxylin, Weigert's Iron (Part A), 500ml, Item #: HWI-A-500
Hematoxylin, Weigert's Iron (Part B), 500ml, Item #: HWI-B-500

HWI-3 Kit Contents:

Hematoxylin, Weigert's Iron (Part A), 1000ml, Item #: HWI-A-999
Hematoxylin, Weigert's Iron (Part B), 1000ml, Item #: HWI-B-999

<u>Catalog Number</u>	<u>Volume</u>
HWI-1	250 ml
HWI-2	1000 ml
HWI-3	2000 ml

Herovici's Stain Solution A

Part A of Herovici's stain. Mix equal parts with part B for working Herovici's solution. Differentiates between young (blue) and mature collagen (red). Also stains erythrocytes yellow.

<u>Catalog Number</u>	<u>Volume</u>
HVA125	125 ml
HVA500	500 ml
HVA999	1000 ml

Herovici's Stain Solution B

Part B of Herovici's stain. Mix equal parts with part A for working Herovici's solution. Differentiates between young (blue) and mature collagen (red). Also stains erythrocytes yellow.

<u>Catalog Number</u>	<u>Volume</u>
HVB125	125 ml
HVB500	500 ml
HVB999	1000 ml

Hydrochloric Acid (1N)

Hydrochloric Acid (1N) manufactured using deionized/distilled water.

<u>Catalog Number</u>	<u>Volume</u>
HQA125	125 ml
HQA500	500 ml
HQA999	1000 ml

Hydrochloric Acid Solution (2%)

Hydrochloric Acid (2%) manufactured using deionized/distilled water. A component of the Iron Stain Kit (cat# IRN-1)

<u>Catalog Number</u>	<u>Volume</u>
HQB500	500 ml
HQB999	1000 ml
HQB3800	1 Gal.

Hydroquinone (1.5gm)

Used in a variety of stain procedures.

<u>Catalog Number</u>	<u>Volume</u>
HFS001.5	1.5 gm

Hydroquinone Solution (0.1%), Acidulated

Component of the Warthin-Starry Stain Kit.

<u>Catalog Number</u>	<u>Volume</u>
HSA030	30 ml

Jenner Stock Solution

For Research Use Only.

Jenner Stock Solution is intended to be used for differential staining of blood smears, bone marrow and blood parasites. This reagent is used in combination with Phosphate Buffer Solution pH 6.8 (cat# PBM) to make a working solution.

Blood Smear Expected Results

Neutrophils: Violet nuclei with dark violet granules and pink cytoplasmic granules

Eosinophils: Violet nuclei with dark violet granules and bright red cytoplasmic granules.

Monocytes: Violet nuclei with light blue cytoplasm.

Lymphocytes: Violet nuclei with dark violet granules and light blue cytoplasm.

Basophils: Violet nuclei with light blue cytoplasm.

Erythrocytes: Pink to yellowish-red.

<u>Catalog Number</u>	<u>Volume</u>
JSS500	500 ml
JSS999	1000 ml

Lieb's Crystal Violet for Amyloid (0.5%)

The use of Crystal Violet for metachromatically staining amyloid was published in 1947 by Ethel Lieb. This stain utilizes a water-reliant metachromatic staining reaction giving reddish amyloid with a blue background. A water-based mounting medium is required to retain permanence of red amyloid coloring.

<u>Catalog Number</u>	<u>Volume</u>
LAM250	250 ml
LAM500	500 ml
LAM999	1000 ml

Light Green S.F. Yellowish Solution

Light Green S.F. Yellowish Solution is intended for use in histological applications as a general counterstain. When used correctly, various shades of green can be obtained to aid in visualization of tissue components.

Cytoplasm: Light Green
Nuclei: Light Green/Blue

<u>Catalog Number</u>	<u>Volume</u>
LGB500	500 ml
LGB999	1000 ml

Light Green Solution

Light Green Solution is intended for use in histological applications as a general counterstain. When used correctly, various shades of green can be obtained to aid in visualization of tissue components.

<u>Catalog Number</u>	<u>Volume</u>
LGA030	30 ml
LGA125	125 ml
LGA500	500 ml
LGA999	1000 ml
LGA3800	1 Gal.

Light Green Solution (0.1%)

Light Green Solution (0.1%) is intended for use in histological applications as a counterstain for Grocott's Silver Stain in addition to other procedures. When used correctly, various shades of green can be obtained to aid in visualization of tissue components.

Cytoplasm: Light Green
Nuclei: Light Green/Blue

<u>Catalog Number</u>	<u>Volume</u>
LGD125	125 ml
LGD500	500 ml
LGD999	1000 ml

Lithium Carbonate Solution (0.05%)

<u>Catalog Number</u>	<u>Volume</u>
LCQ500	500 ml
LCQ999	1000 ml

Lugol's Iodine Solution

<u>Catalog Number</u>	<u>Volume</u>
LIS125	125 ml
LIS500	500 ml
LIS999	1000 ml

Luxol Fast Blue Solution

Stains myelinated nerve fibers.

<u>Catalog Number</u>	<u>Volume</u>
LFB125	125 ml
LFB500	500 ml
LFB999	1000 ml

May-Grunwald Stock Solution

Component of the Giemsa Stain Kit (May-Grunwald) for blood smears.

<u>Catalog Number</u>	<u>Volume</u>
MAY125	125 ml
MAY500	500 ml
MAY999	1000 ml

Methenamine Solution

Component of GMS Stain Kit (catalog # KAA-1). Used in a variety of Special Stain procedures.

<u>Catalog Number</u>	<u>Volume</u>
MET125	125 ml
MET500	500 ml
MET999	1000 ml

Methylene Blue Solution

Methylene Blue Solution has been optimized in our research laboratories to give outstanding results when used in various procedures such as the Ziehl-Neelsen, Fite's, and Gram stain. The stain is also suggested for use in staining a variety of bacteria (Corynebacterium diphtheria, Haemophilus influenzae, Neisseria, etc.) and leukocytes. This reagent produces dark blue nuclei with very light blue cytoplasm.

Nuclei:	Dark Blue
Cytoplasm:	Light Blue
Corynebacterium Diphtheria:	Blue Granules
Escherichia Coli:	Blue Rods
Streptococcus Pyogenes:	Blue Cocci

<u>Catalog Number</u>	<u>Volume</u>
MBS125	125 ml
MBS500	500 ml
MBS999	1000 ml

Mucicarmine Solution (Southgate's)

Mucicarmine Solution (Southgate's) is a component of the Mucicarmine Stain Kit (Catalog# SMS-1) and is intended for use in the histological visualization of acid mucopolysaccharides in tissue sections. Mucicarmine Solution is the component responsible for staining Mucin red. This product is useful in distinguishing mucin negative undifferentiated squamous cell lesions from mucin positive adenocarcinomas. In addition, this product will stain the mucopolysaccharide capsule of Cryptococcus neoformans.

<u>Catalog Number</u>	<u>Volume</u>
SMG125	125 ml
SMG500	500 ml
SMG999	1000 ml

Naphthol Yellow S Solution

Naphthol Yellow S Solution is a component of the Pneumocystis Stain Kit (Catalog# PCS-1) which is intended for use in the histological visualization of Pneumocystis carinii in cytology smears, and paraffin or frozen tissue sections. Naphthol Yellow S Solution is the component responsible for staining the Erythrocytes yellow.

<u>Catalog Number</u>	<u>Volume</u>
NYS125	125 ml
NYS500	500 ml
NYS999	1000 ml

Nuclear Fast Red Solution (Enhanced Stability)

Nuclear Fast Red is a stain with histological applications. The reagent has improved stability over current formulations allowing storage at temperatures ranging from 2-30 Centigrade. Current formulations tend to precipitate in cold temperatures such as experienced during winter shipping. In addition, most formulations develop a small amount of precipitate over extended periods of time. This advanced formulation eliminates problems associated with exposure to cold and aging.

Nuclei:	Red
Cytoplasm:	Pale Pink

<u>Catalog Number</u>	<u>Volume</u>
NFS125	125 ml
NFS500	500 ml
NFS999	1000 ml
NFS3800	1 Gal.

OG-6 Solution

OG-6 is a cytologic stain routinely used in diagnostic cytology to aid in the identification and classification of exfoliative cells. The stain is used for examining exfoliative cells of vaginal, cervical, sputum, as well as other body secretions. Commonly used in combination with hematoxylin.

<u>Catalog Number</u>	<u>Volume</u>
OGA500	500 ml
OGA999	1000 ml
OGA3800	1 Gal.

Oil Red O Solution

Oil Red O Solution is a component of the Oil Red O Stain Kit (For Fat) (Catalog# ORK-1) intended for use in the histological visualization of fat cells and neutral fat. This kit may be used ONLY on frozen tissue sections, fresh smears, or touch preps.

<u>Catalog Number</u>	<u>Volume</u>
ORG125	125 ml
ORG500	500 ml
ORG999	1000 ml

Orcein Solution

Orcein Solution may be used in histology procedures for the visualization of Hepatitis B surface Antigen (HBsAg), elastic fibers, and copper associated proteins. HBsAg appears as irregular shaped aggregates in the cytoplasmic region of the cells. This reagent may be used on formalin-fixed, paraffin-embedded or frozen sections.

HBsAg:	Dark Brown/Purple
Elastic Fibers:	Dark Brown/Purple
Copper Assoc. Proteins:	Dark Purple
Background:	Light Reddish/Purple

<u>Catalog Number</u>	<u>Volume</u>
OAA125	125 ml
OAA500	500 ml
OAA999	1000 ml

Oxalic Acid Solution (2.0%)

<u>Catalog Number</u>	<u>Volume</u>
OQB125	125 ml
OQB500	500 ml
OQB999	1000 ml

Oxidizer Solution (For Steiner's Silver Stain)

Component used in Steiner's Silver Stain.

<u>Catalog Number</u>	<u>Volume</u>
SOS125	125 ml
SOS500	500 ml

Periodic Acid Solution (0.5%)

<u>Catalog Number</u>	<u>Volume</u>
PAA500	500 ml
PAA999	1000 ml

Periodic Acid Solution (1%)

Periodic Acid Solution is a component of the Periodic Acid Schiff's procedure that is intended for use in histological demonstration of lymphocytes and mucopolysaccharides. The staining pattern of the lymphocytes are helpful in making therapeutic decisions in established cases of lymphocytic leukemia. The PAS reaction in tissue sections is useful for the demonstration of mucopolysaccharides. PAS staining may also be used for the demonstration of fungal organisms in tissue sections.

PAS Positive Material: Magenta
Nuclei: Black/Blue (Hematoxylin)

<u>Catalog Number</u>	<u>Volume</u>
PAQ250	250 ml
PAQ500	500 ml
PAQ999	1000 ml
PAQ3800	1 Gal.

Phosphate Buffer Solution, pH 6.8

Ready-to-Use solution used in the Giemsa Stain Kit.

<u>Catalog Number</u>	<u>Volume</u>
PBM500	500 ml
PBM999	1000 ml

Phosphomolybdic Acid Solution (0.2%)

Component of the Picro-Sirius Red Stain Kit (For Cardiac Muscle).

<u>Catalog Number</u>	<u>Volume</u>
PQA250	250 ml
PQA500	500 ml
PQA999	1000 ml

Phosphomolybdic/Phosphotungstic Acid Solution

Used in Masson's Trichrome stain.

<u>Catalog Number</u>	<u>Volume</u>
PPA125	125 ml
PPA500	500 ml
PPA999	1000 ml

Phosphotungstic Acid Hematoxylin Solution

This reagent is used in the P.T.A.H. Stain Kit for Microwave to demonstrate collagen, fibrin, muscle striations, cilia and glial fibers.

<u>Catalog Number</u>	<u>Volume</u>
HPA125	125 ml
HPA500	500 ml
HPA999	1000 ml

Phosphotungstic Acid Solution (5.0%)

<u>Catalog Number</u>	<u>Volume</u>
PGC250	250 ml
PGC500	500 ml
PGC999	1000 ml

Picric Acid - Acetone Solution (0.1%)

Component used in the Gram Stain Kit (Modified Brown & Brenn).

<u>Catalog Number</u>	<u>Volume</u>
PAB125	125 ml
PAB500	500 ml
PAB999	1000 ml

Picro-Sirius Red Solution

<u>Catalog Number</u>	<u>Volume</u>
SRS250	250 ml
SRS500	500 ml
SRS999	1000 ml

Potassium Ferrocyanide Solution (3%)

Used in the Colloidal Iron staining procedure.

<u>Catalog Number</u>	<u>Volume</u>
PFD125	125 ml
PFD500	500 ml
PFD999	1000 ml

Potassium Ferrocyanide Solution (5%)

Used in Iron Stain Kit.

<u>Catalog Number</u>	<u>Volume</u>
PFB500	500 ml
PFB999	1000 ml
PFB3800	1 Gal.

Potassium Hydroxide Solution (10%)

Used in Reticulum Stain Kit (Cat# GRS-1).

<u>Catalog Number</u>	<u>Volume</u>
PHC500	500 ml
PHC999	1000 ml

Potassium Hydroxide Solution (3M)

<u>Catalog Number</u>	<u>Volume</u>
PHA500	500 ml
PHA999	1000 ml

Potassium Metabisulfite Solution (3%)

Used in Reticulum Stain Kit (Cat# GRS-1)

<u>Catalog Number</u>	<u>Volume</u>
PMS125	125 ml
PMS500	500 ml
PMS999	1000 ml

Potassium Permanganate Solution (0.5%)

Used in the Reticulum Stain Kit (Cat# GRS-1)

<u>Catalog Number</u>	<u>Volume</u>
PPD250	250 ml
PPD500	500 ml
PPD999	1000 ml

Potassium Permanganate Solution (1.0%)

<u>Catalog Number</u>	<u>Volume</u>
PPE125	125 ml
PPE500	500 ml
PPE999	1000 ml

Potassium Permanganate Solution (5%)

<u>Catalog Number</u>	<u>Volume</u>
PPG030	30 ml
PPG125	125 ml

Propylene Glycol

<u>Catalog Number</u>	<u>Volume</u>
PRG500	500 ml
PRG999	1000 ml
PRG3800	1 Gal.

Rhodanine Solution (Stock)

Used in the Microwave Copper Stain (Catalog# CSK-1).

<u>Catalog Number</u>	<u>Volume</u>
RSS030	30 ml
RSS125	125 ml

Safranin O Solution (For Gram Staining)

Safranin O Solution (For Gram Staining) has been specially formulated to help visualize gram negative bacteria when using ScyTek's Brown & Brenn Gram stain kit. (BBS-1, BBS-2). Gram negative bacteria stain pink to red.

<u>Catalog Number</u>	<u>Volume</u>
SOG125	125 ml
SOG250	250 ml
SOG500	500 ml
SOG999	1000 ml

Safranin O Solution (For Staining Nuclei)

Safranin O has several uses in histology and cytology but is commonly known for counterstaining nuclei red. This formula contains acetic acid providing a lower pH that reduces non-nucleic background and cytoplasmic staining. This solution is not suitable for bacterial (gram) or cartilage staining.

Nuclei: Red
Background: Light Red to Pink

<u>Catalog Number</u>	<u>Volume</u>
SOH250	250 ml
SOH500	500 ml
SOH999	1000 ml

Schiff's Solution

Schiff's Solution is a component of the Periodic Acid Schiff's procedure that is intended for use in histological demonstration of lymphocytes and mucopolysaccharides. The staining pattern of the lymphocytes are helpful in making therapeutic decisions in established cases of lymphocytic leukemia. The PAS reaction in tissue sections is useful for the demonstration of mucopolysaccharides. PAS staining may also be used for the demonstration of fungal organisms in tissue sections.

PAS Positive Material: Magenta
Nuclei: Black/Blue (Hematoxylin)

<u>Catalog Number</u>	<u>Volume</u>
SRF250	250 ml
SRF500	500 ml
SRF999	1000 ml
SRF3800	1 Gal.

Silver Nitrate Solution (0.2%)

Component of the various special stain procedures.

<u>Catalog Number</u>	<u>Volume</u>
SNS125	125 ml
SNS500	500 ml
SNS999	1000 ml

Silver Nitrate Solution (0.5%), Acidulated

Component of Warthin-Starry Stain Kit.

<u>Catalog Number</u>	<u>Volume</u>
SNB125	125 ml

Silver Nitrate Solution (1%)

Component of Steiner's Silver Stain Kit (cat# SSK-1)

<u>Catalog Number</u>	<u>Volume</u>
SNY125	125 ml
SNY500	500 ml

Silver Nitrate Solution (10%)

Used in various staining procedures.

<u>Catalog Number</u>	<u>Volume</u>
SNX009	9 ml
SNX065	65 ml
SNX125	125 ml
SNX500	500 ml

Silver Nitrate Solution (2%), Acidulated

Component of Warthin-Starry Stain Kit.

<u>Catalog Number</u>	<u>Volume</u>
SNA030	30 ml

Silver Nitrate Solution (5%)

Reagent used in various staining procedures.

<u>Catalog Number</u>	<u>Volume</u>
SNV125	125 ml
SNV500	500 ml

Sodium Bisulfite Solution

Component of GMS Stain Kit (catalog # KAA-1)

<u>Catalog Number</u>	<u>Volume</u>
SBC125	125 ml
SBC500	500 ml
SBC999	1000 ml

Sodium Hydroxide Solution (3.0%)

<u>Catalog Number</u>	<u>Volume</u>
SHC125	125 ml
SHC500	500 ml
SHC999	1000 ml
SHC3800	1 Gal.

Sodium Metabisulfite Solution (5%)

Sodium Metabisulfite Solution (5%) is a component used in the H. Pylori Rapid Stain Kit (Cat# AYH-1).

<u>Catalog Number</u>	<u>Volume</u>
SME125	125 ml
SME500	500 ml
SME999	1000 ml
SME3800	1 Gal.

Sodium Thiosulfate Solution (5%)

<u>Catalog Number</u>	<u>Volume</u>
STB125	125 ml
STB500	500 ml
STB999	1000 ml

SpiroPrep

Component of the Warthin-Starry Stain Kit.

<u>Catalog Number</u>	<u>Volume</u>
SSE125	125 ml
SSE500	500 ml
SSE999	1000 ml

Sudan Black B Solution (in Propylene Glycol)

Sudan Black B (in Propylene Glycol) is intended for use in the histological visualization of fat cells and neutral fat. The product is intended for use on frozen tissue sections, fresh smears, or touch preps.

<u>Catalog Number</u>	<u>Volume</u>
SBG125	125 ml
SBG500	500 ml
SBG999	1000 ml

Sulfuric Acid Solution (1N)

Sulfuric Acid Solution (1N) manufactured using deionized/distilled water.

Used in the Reticulum Stain Kit (Cat# GRS-1)

<u>Catalog Number</u>	<u>Volume</u>
SAQ125	125 ml
SAQ500	500 ml
SAQ999	1000 ml

Tartrazine Solution

Tartrazine Solution is intended for use as a general counterstain in a variety of procedures such as Mucicarmine and Gram stain. Tartrazine provides a light yellow background to aid in the visualization of other stains.

<u>Catalog Number</u>	<u>Volume</u>
TZQ125	125 ml
TZQ500	500 ml
TZQ999	1000 ml

Toluidine Blue Solution

Toluidine Blue Solution is designed for metachromatic staining of acidic substances.

<u>Catalog Number</u>	<u>Volume</u>
TQF125	125 ml
TQF500	500 ml
TQF999	1000 ml
TQF3800	1 Gal.

Trichrome Stain (Blue)

Trichrome Stain (Blue) is a stain with histological applications resulting in muscle fibers staining red, and collagen a bright blue.

<u>Catalog Number</u>	<u>Volume</u>
TGB125	125 ml
TGB500	500 ml
TGB999	1000 ml

Trichrome Stain Solution (Green)

The Trichrome Stain Solution (Green) is a component of the Trichrome Stain Kit (Modified Gomori's) and is intended for use in the histological visualization of collagenous connective tissue fibers in tissue sections.

Collagen:	Green
Muscle Fibers:	Red
Nuclei:	Black/Blue (Hematoxylin)

<u>Catalog Number</u>	<u>Volume</u>
TGG125	125 ml
TGG500	500 ml
TGG999	1000 ml

Twort's Counterstain Kit

The Twort's Counterstain Kit is intended for use in histology procedures such as the Gram Stain to provide contrast for easier visualization of various cell components in tissue sections.

Nuclei:	Red
Cytoplasm:	Light Green

TCK-1 Kit Contents:

Twort's Neutral Red (Part A), 125ml, Item #: TCA125
Twort's Fast Green (Part B), 30ml, Item #: TCB030
Acetic Alcohol Solution (2%), 250ml, Item #: AAF250

<u>Catalog Number</u>	<u>Volume</u>
TCK-1	1 kit(s)

Van Gieson's Solution

The Van Gieson's Solution is intended for use in the histological visualization of collagen in tissue sections. This reagent is used in many special stain procedures including the Colloidal Iron Stain Kit and the Elastic Stain Kit (Modified Verhoff's).

Collagen: Red
Muscle Fibers: Yellow
Cytoplasm: Yellow

<u>Catalog Number</u>	<u>Volume</u>
VGS125	125 ml
VGS500	500 ml
VGS999	1000 ml

Wright-Giemsa Solution

The Wright-Giemsa Solution is intended for differential staining of blood smears and blood parasites. Use in conjunction with Phosphate Buffer Solution pH 6.8 (cat.# PBM)

<u>Catalog Number</u>	<u>Volume</u>
WGS500	500 ml
WGS999	1000 ml
WGS3800	1 Gal.

Xylene - Peanut Oil Solution

Used in Fite's Acid-Fast stain for leprosy organisms.

<u>Catalog Number</u>	<u>Volume</u>
XPO125	125 ml
XPO500	500 ml
XPO999	1000 ml

Zinc Chloride Solution (10%)

Component of the P.T.A.H. Stain Kit for Microwave (Cat# PTA-1).

<u>Catalog Number</u>	<u>Volume</u>
ZCS500	500 ml
ZCS999	1000 ml

Zinc Formalin Solution

Zinc Formalin is a tissue fixative for routine procedures.

<u>Catalog Number</u>	<u>Volume</u>
ZFN500	500 ml
ZFN999	1000 ml

Special Stain Control Slides**Acid Fast Bacteria Control Slides**

Acid Fast Bacteria Control Slides - Mouse Lung, Mycobacterium gordonae

<u>Catalog Number</u>	<u>Volume</u>
HCS1001-25	25 Slides

Alcian Blue Control Slides

Alcian Blue Control Slides - Human Umbilical Cord, Acid Mucopolysaccharies

<u>Catalog Number</u>	<u>Volume</u>
HCS1002-25	25 Slides

Amoeba Control Slides

Amoeba Control Slides - Human Intestine

<u>Catalog Number</u>	<u>Volume</u>
HCS1003-25	25 Slides

Amyloid Control Slides

Amyloid Control Slides - Human Heart, Amyloid Deposits

<u>Catalog Number</u>	<u>Volume</u>
HCS1004-25	25 Slides

Argyrophil Control Slides

Argyrophil Control Slides - Human Tumor, Argyrophil

<u>Catalog Number</u>	<u>Volume</u>
HCS1006-25	25 Slides

Elastic Control Slides

Elastic Control Slides - Human Skins, Elastic Fibers

<u>Catalog Number</u>	<u>Volume</u>
HCS1008-25	25 Slides

Fites Control Slides

Fites Control Slides - Mouse Lung, Nocardia

<u>Catalog Number</u>	<u>Volume</u>
HCS1009-25	25 Slides

Gram Control Slides

Gram Control Slides - Mouse Lung, Staphylococcus Aureus/E. Coli

<u>Catalog Number</u>	<u>Volume</u>
HCS1011-25	25 Slides

Helicobacter Control Slides

Helicobacter Control Slides - Mouse Intestine, Helicobacter Pylori

<u>Catalog Number</u>	<u>Volume</u>
HCS1012-25	25 Slides

Iron Control Slides

Iron Control Slides - Human Liver, Iron Granules

<u>Catalog Number</u>	<u>Volume</u>
HCS1013-25	25 Slides

Melanin Control Slides

Melanin Control Slides - Human Skin, Melanin

<u>Catalog Number</u>	<u>Volume</u>
HCS1014-25	25 Slides

Mucin Control Slides

Mucin Control Slides - Human Intestine, Goblet Cells

<u>Catalog Number</u>	<u>Volume</u>
HCS1015-25	25 Slides

PAS Control Slides

PAS Control Slides - Human Liver, Glycogen

<u>Catalog Number</u>	<u>Volume</u>
HCS1016-25	25 Slides

PAS w/Digestion Control Slides

PAS with Digestion Control Slides - Human Liver, Absence of Glycogen

<u>Catalog Number</u>	<u>Volume</u>
HCS1017-25	25 Slides

PTAH Control Slides

PTAH Control Slides - Human Muscle, Straited Muscles

<u>Catalog Number</u>	<u>Volume</u>
HCS1018-25	25 Slides

Reticulum Control Slides

Reticulum Control Slides - Human Liver, Reticulum Fibers

<u>Catalog Number</u>	<u>Volume</u>
HCS1019-25	25 Slides

Spirochete Control Slides

Spirochete Control Slides - Rabbit Testis, Treponema Palidrum

<u>Catalog Number</u>	<u>Volume</u>
HCS1020-25	25 Slides

Trichrome Control Slides

Trichrome Control Slides - Normal Liver, Connective Tissue

<u>Catalog Number</u>	<u>Volume</u>
HCS1021-25	25 Slides

Slide Master (Hist.)**Slide Master**

(An Innovative Immunohistochemistry Humidity Chamber)

ScyTek Laboratories, Inc. proudly introduces SlideMaster. A humidity chamber designed by a histotechnologist that eliminates the majority of individual slide handling.

SlideMaster has three different parts: A humidity chamber, two individual slide holders with white contrast bars, and a waste receptacle. It has been designed so that all three components are compact and easy to use. A maximum of 20 slides can be used per unit.

This is how it works. A hydrophobic barrier (PAP Pen, Catalog #LP0001) is drawn around the tissue section and slides are put in a special slide holder that secures them into place. Drops of antibody are placed on the slides and incubated. After incubation, the individual slide holders can be tilted and secured at a 45 degree angle. All 20 slides are rinsed off in one easy motion and the buffer (PBS-Tween 20, Catalog # ABA125 or TBS-Tween 20, Catalog # TBS125) drains into the waste receptacle. Slides are gently blotted (tissue paper) at the bottom portion of the hydrophobic barrier, which draws off any remaining liquid on the tissue. The slide holders are then placed back in the horizontal position and incubation and rinse steps are repeated in the same fashion.

For chromogen development, the SlideMaster unit has a contrast bar that changes the background from black to white. The black background produces high contrast so that the tissues mounted glass slides can be easily seen, and the white background produces high contrast and allows the technician to monitor the chromogen development. Slides are then rinsed and counterstained and are then ready for coverslipping. SlideMaster is very easy to use. It is light weight and durable.

By making the hydrophobic barrier around the tissue section as small as possible, the total volume of antibody reagent can be significantly reduced per slide. Instead of using 100-200 microliters of antibodies per tissue section usually 50 microliters will completely cover small tissues and 100 microliters will cover larger tissues. With this method, slide staining is much more efficient, more consistent, drying-out of slides is minimized, and the cost of reagents is reduced.

<u>Catalog Number</u>	<u>Volume</u>
E00001	1 ea.

EasyDip Slide Staining System

Finally a user-friendly approach for staining your microscope slides, the EasyDip Slide Staining System has two components: a square staining jar and a 12 - position vertical slide rack. Jars can be loosely joined to each other laterally, therefore making sure they are kept in the same order when moved around on the lab counter. As an extra benefit, they are available in 5 different colors to help better identifying contents or applications.

The staining jar being made of resistant acetal plastic will not break like most glass jars do. It will resist most staining agents including alcohol and xylene (but not phenol, iodine or ferric chloride). The wide stable base offers greater stability while the inside is recessed, allowing for a smaller reagent volume of only 80 ml. Easy to clean and no metals to corrode. Ideal for special stains, frozen sections and special processes. Will resist temperatures between -170 C and +121 C. Autoclavable. Dimensions: 64 x 76 x 92 mm H (2 1/2 x 3 x 3 5/8 in. H).

Each case includes 5 jars (one of each color) and 1 rack M905-12DGY.

<u>Catalog Number</u>	<u>Volume</u>
M900-12AS-ASSORTED	1 Case(s)

EASYDIP Stainless Steel Holder

Made of Stainless Steel. Will hold up to 6 Jars.

<u>Catalog Number</u>	<u>Volume</u>
M906	1 ea.

ScyTek Laboratories, Inc. - Telephone 800-729-8350 - Fax 435-755-0015 - scytek@scytek.com - www.scytek.com

Slidefile Storage System 100 Positions

Each SlideFile Storage System includes a slide box and a removable tray. A tinted hinged cover makes the contents of the box easy to see at a glance. The base is available in five different colors to help in slide classification and to minimize the possibility of sample mix-up.

The key to the SlideFile System is a removable tray inside the storage box having a hundred individual numbered slots. All slides are stored upright for easier insertion and removal. Simply tilt them forward and backward with one finger to easily and rapidly pick up the slide you need. A unique feature with this system is to be able to read bar codes without having to remove the slides from the box.

For space saving purposes, you can double the amount of slides simply by storing two slides per slot. For maximum storage space, simply remove the tray and line up 400 slides in 3 rows for long term storage. Will resist temperatures between -80 C and +80 C. Not autoclavable.

Dimensions: 82 x 245 x 86 mm H (3 1/4 x 9 5/8 x 3 3/8 in. H)

<u>Catalog Number</u>	<u>Volume</u>
M700-100W-WHITE	1 Case(s)

Stain Tray Slide Staining System

Made of ABS Plastic

Another user friendly approach to immunohistochemistry staining. This tray is also suitable not only for routine staining requiring a humid chamber but is also ideal for Hematology, Cytology and Microbiology laboratories. Manipulation is made safe and easy by using only one hand.

The StainTray has a black base made of tough ABS plastic withstanding a wide range of chemicals (Avoid chlorinated hydrocarbons). It will accept up to 20 slides on four plastic rails covered with a polymer strip to perfectly hold slides even if tray is held at an angle. When humidity is needed, wells between rails will hold up to one ml of water securely without splashing. Middle wells will hold up to 2 ml each. Rails are raised not only to avoid water touching the slides but to make them more easily retrieveable. The base will also hold excess stain solution dripping from the slides. Four rubber feet ensure greater base stability. Units are stackable for space saving purposes.

Two covers are available:

A clear one (M920-1) allowing for visual examination. Made of PETG with a temperature range of -20 C to +60 C.

A black lid (M920-2) for fluorescent work. Made of ABS with a temperature range of -80 C to +80 C.

Dimensions with cover: 38 W x 24 D x 4.5 H cm (15 W x 9 3/8 D x 1 3/4 H in.)

<u>Catalog Number</u>	<u>Volume</u>
M920-1	1 Clear

Vertical Slide Staining Rack Dark Gray

The EasyDip Slide Staining Rack will hold up to 12 microscope slides with dimensions such as 75 x 25 mm, (3 x 1 in.) and even 76 x 26 mm and with a thickness of 1.0 and 1.2 mm. The slides fit into individual slots for free passage and rapid drainage of staining fluids. Since they are placed vertically in the rack and not horizontally, their writing area will not be stained by the fluid, allowing their removal without the use of forceps. The lid completely covers the EasyDip Slide Staining Jar to minimize spill and evaporation. A handle is permanently attached to the rack for easy insertion and removal of slides without your fingers touching the solution. Available in dark gray only. Will resist temperatures between -170 C and +121 C. Autoclavable. Dimensions: 60 x 64 x 97 mm H (2 1/4 x 2 1/2 x 3 3/4 in. H).

<u>Catalog Number</u>	<u>Volume</u>
M905-12DGY	1 Case(s)

Ancillary (Hist.)

Wash Solution Concentrate (50X)

Wash Solution Concentrate (50x) is designed to provide optimal rinsing of routine or special stains between steps. In addition, this reagent can be used as a dilution buffer for most aqueous stains. This product is compatible with hand staining procedures and most automated systems.

<u>Catalog Number</u>	<u>Volume</u>
WSC999	1000 ml

Mounting Media (H & C)

Aqueous Mount

Aqueous Mount is an aqueous mounting medium formulated for use with chromogenic tissue and cell staining. It may be used with immunohistochemistry, special stains, chromogens such as Fast-Red or AEC that require an aqueous mounting medium, or those that do not, such as DAB. Available in convenient dropper top bottles. Coverslips can be removed by soaking in water. No heating is required before use. When it is dry, it produces an even surface.

Summary Protocol:

Apply adequate Aqueous Mount to cover sample on microscope slide and coverslip.

Allow slides to dry.

<u>Catalog Number</u>	<u>Volume</u>
AMT030	30 ml
AMT060	60 ml
AMT500	500 ml
AMT999	1000 ml

Aqueous Mount (Low Viscosity)

Aqueous Mount (Low Viscosity) is an aqueous mounting medium formulated for use with chromogenic tissue and cell staining. It may be used with immunohistochemistry, special stains, chromogens such as Fast-Red or AEC that require an aqueous mounting medium, or those that do not, such as DAB. Available in convenient dropper top bottles. Coverslips can be removed by soaking in water. No heating is required before use. When it is dry, it produces an even surface. Low viscosity formula flows more freely than Aqueous Mount part number AMT.

Summary Protocol:

Apply adequate Aqueous Mount (Low Viscosity) to cover sample on microscope slide and coverslip.
Allow slides to dry.

<u>Catalog Number</u>	<u>Volume</u>
AML030	30 ml
AML060	60 ml
AML500	500 ml
AML999	1000 ml

Buffered Glycerol Mounting Media

Buffered Glycerol Mounting Media is a non-drying formulation mounting medium formulated for use with immunofluorescence, Immunohistochemistry, special stains, chromogenic tissue, and cell staining. Available in convenient dropper top bottles. Coverslips may be removed by soaking in water. No heating is required before use. Specialty formulation which contains no anti-fade components.

Summary Protocol:

Apply adequate Buffered Glycerol Mounting Media to cover sample on microscope slide and coverslip.
If desired, seal edges with nail polish or synthetic resin mounting media.

For immunofluorescent procedures, store slides at 2-8 C in the dark.

<u>Catalog Number</u>	<u>Volume</u>
GMM003	3 ml
GMM030	30 ml
GMM500	500 ml
GMM999	1000 ml

FluoreGuard Mounting Medium

FluoreGuard Mounting Medium is a water-soluble formulation mounting medium is designed for semi-coverslipping of fluorescent slide preparations. For use with immunofluorescence, Immunohistochemistry, special stains, chromogenic tissue, and cell staining. Available in convenient dropper top bottles. FluoreGuard is an aqueous based medium and may be removed by soaking in PBS overnight. FluoreGuard dries to a semi-rigid layer which eliminates tissue damage due to moving coverslips and facilitates long term storage.

Summary Protocol:

Apply several drops of FluoreGuard Mounting Medium and coverslip.
Allow FluoreGuard to dry for 30 minutes prior to viewing.
Product will dry to a semi-solid form overnight.

<u>Catalog Number</u>	<u>Volume</u>
FMM030	30 ml
FMM060	60 ml
FMM500	500 ml
FMM999	1000 ml

FluoreGuard Mounting Medium (Hard Set)

FluoreGuard Mounting Medium (Hard Set) is a water-soluble formulation mounting medium is designed for semi-coverslipping of fluorescent slide preparations in humid conditions. For use with immunofluorescence, Immunohistochemistry, special stains, chromogenic tissue, and cell staining. Available in convenient dropper top bottles. FluoreGuard Mounting Medium (Hard Set) is a water-soluble medium which may be removed by soaking in PBS overnight. FluoreGuard Mounting Medium (Hard Set) dries to a semi-rigid layer which eliminates tissue damage due to moving coverslips and facilitates long term storage.

Summary Protocol:

Apply several drops of FluoreGuard Mounting Medium (Hard Set) and coverslip.
Allow FluoreGuard Mounting Medium (Hard Set) to dry for 30 minutes prior to viewing.
Product will dry to a semi-solid form overnight.

<u>Catalog Number</u>	<u>Volume</u>
FMH030	30 ml
FMH060	60 ml
FMH500	500 ml
FMH999	1000 ml

Permanent Mounting Media (Aqueous)

AEC and Fast Red are common chromogens for peroxidase and alkaline phosphatase based immunostaining. Slides stained with these chromogens cannot be stored permanently. Permanent Mounting Medium (Aqueous) has been designed to overcome this limitation. This product is an aqueous mounting medium with a very high refractive index, which when applied to the stained tissue sections can store the tissue specimens permanently without fading of the chromogens. Due to the superior refractive index, tissues mounted in this medium look like dehydrated specimens. No cover slipping is required. However, if cover slipping is desired, dry slides can be post mounted using an organic based mounting medium. Advantages of this product include: no coverslip, no exposure to the organic fumes, permanent storage of slides and high resolution of tissue specimens. This reagent is compatible with AEC, DAB, Fast Red, BCIP/NBT, BCIP/INT and fluorescent dyes like FITC and phycobiliproteins. High pH ensures increased stability of fluorescence.

Summary Protocol:

Apply 2-3 drops directly on tissue sections. Gently rotate glass slide to make a thin layer of medium. Make certain that tissue is completely covered.

<u>Catalog Number</u>	<u>Volume</u>
PMT030	30 ml

PlastiMount - Mounting Medium

This product is a fast drying, organic solvent (Toluene) based acrylic polymer for permanent mounting of tissue specimens stained with most biological dyes. In addition, this product may be used in immunohistochemical procedures with chromogen substrates such as DAB or Permanent Red. PlastiMount is designed to be optically clear (RI = 1.48), with a refractive index close to that of fixed protein. Lower viscosity makes this product easy to use. PlastiMount will not discolor, crack, or lose its adhesive properties with age.

<u>Catalog Number</u>	<u>Volume</u>
PMM100	100 ml
PMM500	500 ml

PT Mount - Mounting Medium

An organic solvent (Toluene) based mount for permanent mounting of tissue specimens. This mount is compatible with all biological dyes and immunohistochemical stains requiring a solvent based mount. PT mount designed to be optically clear, with a refractive index close to that of fixed protein. Slides will not fade over time when stored in the dark

<u>Catalog Number</u>	<u>Volume</u>
PTM100	100 ml
PTM500	500 ml

Miscellaneous (H & C)

KP Marker Plus

Klinipath KP Marker Plus is a solvent resistant marking pen for permanent writing on glass slides, cassettes and other items in the laboratory. One box contains 12 pens.

<u>Catalog Number</u>	<u>Volume</u>
KPM-1	12 Pen(s)

PAP Pen

This marking pen has been designed to provide a thin film-like barrier when a circle is drawn around the specimen on a slide. This barrier creates the proper surface tension to hold an antibody solution within the target area on the slide. PAP Pen contains a special formulation which is insoluble in alcohol and acetone. It can be removed, if desired, by xylene after the staining procedure is completed.

<u>Catalog Number</u>	<u>Volume</u>
LP0001	1 ea.

PAP Pen-Mini

This marking pen has been designed to provide a thin film-like barrier when a circle is drawn around the specimen on a slide. This barrier creates the proper surface tension to hold an antibody solution within the target area on the slide. PAP Pen contains a special formulation which is insoluble in alcohol and acetone. It can be removed, if desired, by xylene after the staining procedure is completed.

<u>Catalog Number</u>	<u>Volume</u>
LP0002	1 ea.

Cytology

Individual Reagents (Cyt.)

Kits (Cyt.)

Papanicolaou (PAP) Stain Kit

The Papanicolaou (PAP) Stain Kit is designed to differentiate between a variety of cells in vaginal smears for detection of vaginal, uterine and cervical cancer. In addition, this procedure is valuable for staining a variety of other bodily secretions and cell smears. The procedure was developed in the early 1940's by George Papanicolaou.

Nuclei:	Blue
High Keratin Cells:	Orange
Superficial Cells:	Pink
Erythrocytes:	Dark Pink
Parabasal Cells:	Blue/Green
Intermediate Cells:	Blue/Green
Metaplastic Cells:	May contain both Blue/Green and Pink.

PAP-1 Kit Contents:

Hematoxylin, Mayer's (Lillie's Modification), 500ml, Item #: HMM500

OG-6 Solution, 500ml, Item #: OGA500

EA-50 Stain Solution, 500ml, Item #: EAC500

PAP-2 Kit Contents:

Hematoxylin, Mayer's (Lillie's Modification), 30ml, Item #: HMM030

OG-6 Solution, 30ml, Item #: OGA030

EA-50 Stain Solution, 30ml, Item #: EAC030

PAP-3 Kit Contents:

Hematoxylin, Mayer's (Lillie's Modification), 1000ml, Item #: HMM999

OG-6 Solution, 1000ml, Item #: OGA999

EA-50 Stain Solution, 1000ml, Item #: EAC999

<u>Catalog Number</u>	<u>Volume</u>
PAP-2	1 kit(s)
PAP-1	500 ml ea.
PAP-3	1000 ml ea.

Bluing Reagent

Bluing Reagent may be used following hematoxylin to "blue" or alter the shade of hematoxylin from a purple to blue. Nuclei: Purple. Nuclei after Bluing: Blue. Blue nuclei after Eosin: Blue to Violet. A pH-controlled solution for complete and effective bluing of hematoxylin in histological and cytological procedures. Hematoxylin is a nuclear stain that is used as a counterstain for immunohistochemistry. Together with eosin, it forms the hematoxylin stain (H&E stain), one of the most commonly used stains in histology.

Summary Protocol:

Stain with hematoxylin according to protocol. Place in Bluing Reagent until nuclei are blue (1-2 minutes).

<u>Catalog Number</u>	<u>Volume</u>
BRT500	500 ml
BRT999	1000 ml
BRT3800	1 Gal.

EA-50 Stain Solution

EA-50 is a cytologic stain routinely used in diagnostic cytology to aid in the identification and classification of exfoliative cells. The stain is used for examining exfoliative cells of vaginal, cervical, sputum, as well as other body secretions. Commonly used in combination with hematoxylin.

Results:

Nuclei: Blue
Cytoplasm: Various shades of Pink or Green.

<u>Catalog Number</u>	<u>Volume</u>
EAC500	500 ml
EAC999	1000 ml
EAC3800	1 Gal.

EA-65 Stain Solution

EA-65 is a cytologic stain routinely used in diagnostic cytology to aid in the identification and classification of exfoliative cells. EA-65 is recommended for specimens with large amounts of mucus. The stain is used for examining exfoliative cells of vaginal, cervical, sputum, as well as other body secretions. Commonly used in combination with hematoxylin.

Results:

Nuclei: Blue
Cytoplasm: Various shades of Pink or Green.

<u>Catalog Number</u>	<u>Volume</u>
EAD500	500 ml
EAD999	1000 ml
EAD3800	1 Gal.

Eosin Y Solution (Alcoholic)

Eosin Y Solution is intended for use in the histological demonstration of cytoplasm and is commonly used as a counterstain for Hematoxylin. When used correctly, various shades of pink can be obtained to aid in visualization of tissue components. Erythrocytes, collagen, and the cytoplasm of muscle or epithelial cells will stain with different shades of pink.

Cytoplasm: Pink to Red
Erythrocytes: Pink to Red
Nuclei: Black/Blue (Hematoxylin)

<u>Catalog Number</u>	<u>Volume</u>
EYA500	500 ml
EYA999	1000 ml
EYA3800	1 Gal.

Eosin Y Solution (Aqueous)

Eosin Y Solution (Aqueous) is intended for use in the histological demonstration of cytoplasm and is commonly used as a counterstain for Hematoxylin. When used correctly, various shades of pink can be obtained to aid in visualization of tissue components. Erythrocytes, collagen, and the cytoplasm of muscle or epithelial cells will stain with different shades of pink.

Cytoplasm: Pink to Red
Erythrocytes: Pink to Red
Nuclei: Black/Blue (Hematoxylin)

<u>Catalog Number</u>	<u>Volume</u>
EYQ500	500 ml
EYQ999	1000 ml
EYQ3800	1 Gal.

Eosin Y Solution (Modified Alcoholic)

Eosin Y Solution (Modified Alcoholic) is intended for use in histology and cytology applications. This newly formulated Eosin provides the benefits of a traditional alcoholic formula with significant improvements in usability. Advantages include lower evaporation rate, better color patterns, reduced tendency to spill over container, hands, and countertops, and improved surface tension to remain on tissue section.

Cytoplasm: Light Pink
Collagen: Pink
Muscle: Pink/Rose
Erythrocytes: Pink/Red
Summary Protocol:

Deparaffinize sections and hydrate
Apply adequate Eosin Y Solution (Modified Alcoholic) incubate for 2-3 minutes
Rinse
Dehydrate slide
Clear slide and mount

<u>Catalog Number</u>	<u>Volume</u>
EYB500	500 ml
EYB999	1000 ml
EYB3800	1 Gal.

Eosin-Phloxine Solution

Eosin-Phloxine Solution is intended for use in the histological demonstration of cytoplasm. The addition of Phloxine to Eosin results in more vibrant staining than with Eosin alone. When used correctly, Eosin-Phloxine various shades of pink can be obtained to aid in visualization of tissue components.

Cytoplasm: Pink to Red
Erythrocytes: Pink to Red
Alcoholic Hyalin: Pink

<u>Catalog Number</u>	<u>Volume</u>
EPN500	500 ml
EPN999	1000 ml
EPN3800	1 Gal.

Hematoxylin, Mayer's (Lillie's Modification)

Mayer's Hematoxylin (Lillie's Modification) is a progressive nuclear hematoxylin stain with several histological applications. Nuclear staining is strong, clean, crisp, and no differentiation is needed. Bluing reagent (Catalog: BRT) may be used following hematoxylin to "blue" or alter the shade of hematoxylin from a purple to blue. Nuclei: Purple. Nuclei after Bluing: Blue. Blue nuclei after Eosin: Blue to Violet.

Hematoxylin is a nuclear stain that is used as a counterstain for immunohistochemistry (IHC). Together with eosin, it forms the Hematoxylin and Eosin stain (H&E stain), one of the most commonly used stains in histology.

Summary Protocol:

Apply Hematoxylin to completely cover specimen and incubate for 2-10 minutes with hematoxylin according to desired intensity.

<u>Catalog Number</u>	<u>Volume</u>
HMM125	125 ml
HMM500	500 ml
HMM999	1000 ml
HMM3800	1 Gal.

Hematoxylin, Weigert's Iron Kit

Weigert's Iron Hematoxylin is intended to be used with various special stain kits. Product is supplied as a two component (equal volumes of parts A and B) system that is mixed prior to use and results in black/blue nuclei.

HWI-1 Kit Contents:

Hematoxylin, Weigert's Iron (Part A), 125ml, Item #: HWI-A-125
Hematoxylin, Weigert's Iron (Part B), 125ml, Item #: HWI-B-125

HWI-2 Kit Contents:

Hematoxylin, Weigert's Iron (Part A), 500ml, Item #: HWI-A-500
Hematoxylin, Weigert's Iron (Part B), 500ml, Item #: HWI-B-500

HWI-3 Kit Contents:

Hematoxylin, Weigert's Iron (Part A), 1000ml, Item #: HWI-A-999
Hematoxylin, Weigert's Iron (Part B), 1000ml, Item #: HWI-B-999

<u>Catalog Number</u>	<u>Volume</u>
HWI-1	250 ml
HWI-2	1000 ml
HWI-3	2000 ml

OG-6 Solution

OG-6 is a cytologic stain routinely used in diagnostic cytology to aid in the identification and classification of exfoliative cells. The stain is used for examining exfoliative cells of vaginal, cervical, sputum, as well as other body secretions. Commonly used in combination with hematoxylin.

<u>Catalog Number</u>	<u>Volume</u>
OGA500	500 ml
OGA999	1000 ml
OGA3800	1 Gal.

Transport Media (Cyt.)**CytoPort, Cytology Transport Media**

This reagent is intended for use as a transport media for mammalian cells for subsequent testing. Samples may be transported at room temperature.

<u>Catalog Number</u>	<u>Volume</u>
CTM500	500 ml
CTM999	1000 ml

Ancillary (Cyt.)**KP Marker Plus**

Klinipath KP Marker Plus is a solvent resistant marking pen for permanent writing on glass slides, cassettes and other items in the laboratory. One box contains 12 pens.

<u>Catalog Number</u>	<u>Volume</u>
KPM-1	12 Pen(s)

PAP Pen

This marking pen has been designed to provide a thin film-like barrier when a circle is drawn around the specimen on a slide. This barrier creates the proper surface tension to hold an antibody solution within the target area on the slide. PAP Pen contains a special formulation which is insoluble in alcohol and acetone. It can be removed, if desired, by xylene after the staining procedure is completed.

<u>Catalog Number</u>	<u>Volume</u>
LP0001	1 ea.

PAP Pen-Mini

This marking pen has been designed to provide a thin film-like barrier when a circle is drawn around the specimen on a slide. This barrier creates the proper surface tension to hold an antibody solution within the target area on the slide. PAP Pen contains a special formulation which is insoluble in alcohol and acetone. It can be removed, if desired, by xylene after the staining procedure is completed.

<u>Catalog Number</u>	<u>Volume</u>
LP0002	1 ea.

Wash Solution Concentrate (50X)

Wash Solution Concentrate (50x) is designed to provide optimal rinsing of routine or special stains between steps. In addition, this reagent can be used as a dilution buffer for most aqueous stains. This product is compatible with hand staining procedures and most automated systems.

<u>Catalog Number</u>	<u>Volume</u>
WSC999	1000 ml

Hematology

Kits (Hem.)

Giemsa Stain Kit (May-Grunwald)

The Giemsa Stain Kit (May-Grunwald) is intended for use in the visualization of cells present in hematopoietic tissues and certain microorganisms. This kit may be used on formalin-fixed, paraffin-embedded sections.

Nuclei:	Blue/Violet
Cytoplasm:	Light Blue
Collagen:	Pale Pink
Muscle Fibers:	Pale Pink
Erythrocytes:	Gray, Yellow or Pink
Rickettsia:	Reddish-Purple
Helicobacter Pylori:	Blue
Mast Cells:	Dark Blue with Red Granules

GMG-1 Kit Contents:
 May-Grunwald Stock Solution, 500ml, Item #: MAY500
 Giemsa Stock Solution, 500ml, Item #: GGS500
 Phosphate Buffer Solution pH 6.8, 500ml, Item #: PBM500

GMG-2 Kit Contents:
 May-Grunwald Stock Solution, 30ml, Item #: MAY030
 Giemsa Stock Solution, 5ml, Item #: GGS008
 Phosphate Buffer Solution pH 6.8, 60ml x2, Item #: PBM060
 Graduated Mixing Vial, 2 ea

<u>Catalog Number</u>	<u>Volume</u>
GMG-2	100 Slides
GMG-1	1 kit(s)

Quick-Dip Differential Stain Kit

The Quick-Dip Differential Stain Kit provides three reagents for rapid staining of blood smears. Methanol is used to quickly fix smears, followed by differential staining with buffered xanthene and thiazine dyes.

Expected Results:
 Neutrophils: Violet nuclei with dark violet granules and pink cytoplasmic granules.
 Eosinophils: Violet nuclei with dark violet granules and bright red cytoplasmic granules.
 Monocytes: Violet nuclei with light blue cytoplasm.
 Lymphocytes: Violet nuclei with dark violet granules and light blue cytoplasm.
 Basophils: Violet nuclei with light blue cytoplasm.
 Erythrocytes: Pink to yellowish-red.

<u>Catalog Number</u>	<u>Volume</u>
QDK-1	500 ml ea.
QDK-GL	1 Gal.

Wright-Giemsa Stain Kit

Wright-Giemsa Stain Kit is intended to be used for differential staining of blood smears, bone marrow and blood parasites.

Erythrocytes:	Pink-Tan
Leukocytes:	Blue-Purple
Neutrophils:	Light Purple granules in cytoplasm.
Eosinophils:	Bright Red-Red-Orange granules in cytoplasm.
Basophils:	Deep Purple granules in cytoplasm.
Platelets:	Violet-Purple granules in light blue cytoplasm.

WGK-1 Kit Contents:
 Wright-Giemsa Solution, 500ml, Item #: WGS500
 Phosphate Buffer Solution pH 6.8, 500ml x2, Item #: PBM500

WGK-2 Kit Contents:
 Wright-Giemsa Solution, 30ml, Item #: WGS030
 Phosphate Buffer Solution pH 6.8, 60ml x2, Item #: PBM060

<u>Catalog Number</u>	<u>Volume</u>
WGK-2	1 kit(s)
WGK-1	1 kit(s)

Individual Reagents (Hem.)

Brilliant Cresyl Blue (1.5% in 0.85% Saline)

Brilliant Cresyl Blue (1.5% in 0.85% Saline) is a supravital hematology stain for counting reticulocytes in peripheral blood smears. The number of reticulocytes in the blood is a simple measure of erythropoietic performance. Reticulocytes are immature erythrocytes that contain nuclear remnants of basophilic ribonucleoproteins which decreases as the reticulocyte matures. When stained, reticulocytes appear to contain dark blue granules or filaments.

Reticulocytes: Blue/Green with Dark Blue Granules.
 Erythrocytes: Blue/Green
 Leukocytes: Light Blue

<u>Catalog Number</u>	<u>Volume</u>
BCS500	500 ml
BCS999	1000 ml
BCS3800	1 Gal.

Giemsa Stock Solution

Component of the Giemsa Stain Kit (May Grunwald) for blood smears.

<u>Catalog Number</u>	<u>Volume</u>
GGS125	125 ml
GGS500	500 ml
GGS999	1000 ml

Jenner Stock Solution

For Research Use Only.

Jenner Stock Solution is intended to be used for differential staining of blood smears, bone marrow and blood parasites. This reagent is used in combination with Phosphate Buffer Solution pH 6.8 (cat# PBM) to make a working solution.

Blood Smear Expected Results

Neutrophils: Violet nuclei with dark violet granules and pink cytoplasmic granules

Eosinophils: Violet nuclei with dark violet granules and bright red cytoplasmic granules.

Monocytes: Violet nuclei with light blue cytoplasm.

Lymphocytes: Violet nuclei with dark violet granules and light blue cytoplasm.

Basophils: Violet nuclei with light blue cytoplasm.

Erythrocytes: Pink to yellowish-red.

<u>Catalog Number</u>	<u>Volume</u>
JSS500	500 ml
JSS999	1000 ml

May-Grunwald Stock Solution

Component of the Giemsa Stain Kit (May-Grunwald) for blood smears.

<u>Catalog Number</u>	<u>Volume</u>
MAY125	125 ml
MAY500	500 ml
MAY999	1000 ml

Phosphate Buffer Solution, pH 6.8

Ready-to-Use solution used in the Giemsa Stain Kit.

<u>Catalog Number</u>	<u>Volume</u>
PBM500	500 ml
PBM999	1000 ml

Wright-Giemsa Solution

The Wright-Giemsa Solution is intended for differential staining of blood smears and blood parasites. Use in conjunction with Phosphate Buffer Solution pH 6.8 (cat.# PBM)

<u>Catalog Number</u>	<u>Volume</u>
WGS500	500 ml
WGS999	1000 ml
WGS3800	1 Gal.

Ancillary (Hem.)

Wash Solution Concentrate (50X)

Wash Solution Concentrate (50x) is designed to provide optimal rinsing of routine or special stains between steps. In addition, this reagent can be used as a dilution buffer for most aqueous stains. This product is compatible with hand staining procedures and most automated systems.

<u>Catalog Number</u>	<u>Volume</u>
WSC999	1000 ml

Microbiology

Kits (Mic.)

Acid Fast Bacteria (AFB) Stain Kit

The Acid Fast Bacteria (AFB) Stain Kit is intended for use in the histological visualization of Acid Fast Bacteria and Tubercle Bacilli. This kit is a rapid 15-minute procedure. The lipid capsule of the acid-fast organism takes up carbol fuchsin and resists decolorization.

Acid Fast Organisms: Bright Red
Background: Light Green

FAB-1 Kit Contents:

Carbol Fuchsin Solution, 125ml, Item #: CFZ125
Acid Alcohol Solution (0.5%), 500ml, Item #: AAL500
Light Green Solution, 125ml, Item #: LGA125

FAB-2 Kit Contents:

Carbol Fuchsin Solution, 30ml, Item #: CFZ030
Acid Alcohol Solution (0.5%), 30ml x2, Item #: AAL030
Light Green Solution, 30ml, Item #: LGA030

FAB-500 Kit Contents:

Carbol Fuchsin Solution, 500ml, Item #: CFZ500
Acid Alcohol Solution (0.5%), 500ml x2, Item #: AAL500
Light Green Solution, 500ml, Item #: LGA500

Catalog Number	Volume
FAB-2	30 ml ea.
FAB-1	125 ml ea.
FAB-500	500 ml ea.

Fite's Stain Kit

The Fite's Stain Kit (For Leprosy) is intended for use in the histological visualization of mycobacterium leprae (leprosy) and Nocardia.

Lepra bacillus: Red
Nocardia: Red
Background: Blue

FLS-1 Kit Contents:

Xylene-Peanut Oil Solution, 125ml, Item #: XPO125
Carbol Fuchsin Solution, 125ml, Item #: CFZ125
Acid Alcohol Solution (1%), 500ml, Item #: AAM500
Methylene Blue Solution, 125ml, Item #: MBS125

FLS-500 Kit Contents:

Xylene-Peanut Oil Solution, 500ml, Item #: XPO500
Carbol Fuchsin Solution, 500ml, Item #: CFZ500
Acid Alcohol Solution (1%), 500ml x2, Item #: AAM500
Methylene Blue Solution, 500ml, Item #: MBS500

Catalog Number	Volume
FLS-1	125 ml ea.
FLS-500	500 ml ea.

Giemsa Stain Kit (May-Grunwald)

The Giemsa Stain Kit (May-Grunwald) is intended for use in the visualization of cells present in hematopoietic tissues and certain microorganisms. This kit may be used on formalin-fixed, paraffin-embedded sections.

Nuclei: Blue/Violet
Cytoplasm: Light Blue
Collagen: Pale Pink
Muscle Fibers: Pale Pink
Erythrocytes: Gray, Yellow or Pink
Rickettsia: Reddish-Purple
Helicobacter Pylori: Blue
Mast Cells: Dark Blue with Red Granules

GMG-1 Kit Contents:

May-Grunwald Stock Solution, 500ml, Item #: MAY500
Giemsa Stock Solution, 500ml, Item #: GGS500
Phosphate Buffer Solution pH 6.8, 500ml, Item #: PBM500

GMG-2 Kit Contents:

May-Grunwald Stock Solution, 30ml, Item #: MAY030
Giemsa Stock Solution, 5ml, Item #: GGS008
Phosphate Buffer Solution pH 6.8, 60ml x2, Item #: PBM060
Graduated Mixing Vial, 2 ea

Catalog Number	Volume
GMG-2	100 Slides
GMG-1	1 kit(s)

GMS Stain Kit

The Modified Gomori Methenamine-Silver Nitrate Stain (GMS Stain Kit) is intended for use in the histologic visualization of fungi, basement membrane and some opportunistic organisms such as Pneumocystis carinii. Pneumocystis carinii is an opportunistic pathogen that causes severe pulmonary disease in humans, dogs, rats, mice and other vertebrate species with acquired, induced, or inherited immune deficiency syndromes. In addition, this procedure will demonstrate Actinomyces and related species, Nocardia asteroidis, and certain encapsulated bacteria.

KAA-1 Kit Contents:

Silver Nitrate Solution (0.2%), 125ml, Item #: SNS125
Methenamine Solution, 125ml, Item #: MET125
Gold Chloride Solution (0.2%), 125ml, Item #: GCB125
Borax Solution, 15ml, Item #: BOR015
Sodium Bisulfite Solution, 125ml, Item #: SBC125
Chromic Acid Solution, 125ml, Item #: CHR125
Sodium Thiosulfate Solution (5%), 125ml, Item #: STB125
Light Green Solution, 125ml, Item #: LGA125

KAA-1000 Kit Contents:

Silver Nitrate Solution (0.2%), 1000ml, Item #: SNS999
Methenamine Solution, 1000ml, Item #: MET999
Gold Chloride Solution (0.2%), 1000ml, Item #: GCB999
Borax Solution, 125ml, Item #: BOR125
Sodium Bisulfite Solution, 1000ml, Item #: SBC999
Chromic Acid Solution, 1000ml, Item #: CHR999
Sodium Thiosulfate Solution (5%), 1000ml, Item #: STB999
Light Green Solution, 1000ml, Item #: LGA999

Catalog Number	Volume
KAA-1	125 ml ea.
KAA-500	500 ml ea.
KAA-1000	1000 ml ea.

Gram Stain Kit

The Gram Stain Kit is intended for the demonstration and differentiation of Gram-positive and Gram-negative bacteria.

Gram Positive Bacteria: Blue
 Gram Negative Bacteria: Red
 Other Tissue: Yellow
 Nuclei: Red

GSK-1 Kit Contents:

Gentian Violet Solution, 125ml, Item #: GVS125
 Lugol's Iodine Solution, 125ml, Item #: LIS125
 Gram's Decolorizer Solution, 125ml, Item #: GDS125
 Carbol Fuchsin Counterstain, 125ml, Item #: CFX125
 Tartrazine Solution, 125ml, Item #: TZQ125

GSK-2 Kit Contents:

Gentian Violet Solution, 30ml, Item #: GVS030
 Lugol's Iodine Solution, 30ml, Item #: LIS030
 Gram's Decolorizer Solution, 30ml x2, Item #: GDS030
 Carbol Fuchsin Counterstain, 30ml, Item #: CFX030
 Tartrazine Solution, 30ml, Item #: TZQ030

GSK-500 Kit Contents:

Gentian Violet Solution, 500ml, Item #: GVS500
 Lugol's Iodine Solution, 500ml, Item #: LIS500
 Gram's Decolorizer Solution, 500ml, Item #: GDS500
 Carbol Fuchsin Counterstain, 500ml, Item #: CFX500
 Tartrazine Solution, 500ml, Item #: TZQ500

<u>Catalog Number</u>	<u>Volume</u>
GSK-2	30 ml ea.
GSK-1	125 ml ea.
GSK-500	500 ml ea.

Gram Stain Kit (Modified Brown & Brenn)

The Gram Stain Kit (Modified Brown & Brenn) is intended for the demonstration and differentiation of Gram-positive and Gram-negative bacteria.

Gram Positive Bacteria: Blue
 Gram Negative Bacteria: Red
 Background: Yellow
 Nuclei: Red

BBS-1 Kit Contents:

Gentian Violet Solution, 125ml, Item #: GVS125
 Lugol's Iodine Solution, 125ml, Item #: LIS125
 Gram's Decolorizer Solution, 125ml, Item #: GDS125
 Safranin O Solution (For Gram Staining), 125ml, Item #: SOG125
 Picric Acid - Acetone Solution (0.1%), 125ml, Item #: PAB125

BBS-2 Kit Contents:

Gentian Violet Solution, 30ml, Item #: GVS030
 Lugol's Iodine Solution, 30ml, Item #: LIS030
 Gram's Decolorizer Solution, 30ml x2, Item #: GDS030
 Safranin O Solution (For Gram Staining), 30ml, Item #: SOG030
 Picric Acid - Acetone Solution (0.1%), 30ml, Item #: PAB030

BBS-500 Kit Contents:

Gentian Violet Solution, 500ml, Item #: GVS500
 Lugol's Iodine Solution, 500ml, Item #: LIS500
 Gram's Decolorizer Solution, 500ml, Item #: GDS500
 Safranin O Solution (For Gram Staining), 500ml, Item #: SOG500
 Picric Acid - Acetone Solution (0.1%), 500ml, Item #: PAB500

<u>Catalog Number</u>	<u>Volume</u>
BBS-2	30 ml ea.
BBS-1	125 ml ea.
BBS-250	250 ml
BBS-500	500 ml ea.

H. Pylori Rapid Stain Kit

The H. Pylori Rapid Stain Kit is designed for demonstrating Helicobacter Pylori infected tissue. Kit may be used on formalin fixed, paraffin-embedded tissue. The Warthin-Starry Stain Kit (WSS-1) is a more sensitive system for H. Pylori and is suggested for cases where total H. Pylori count is low.

Results:

Helicobacter Pylori: Blue
Mucin: Yellow
Background: Light Blue

AYH-1 Kit Contents:

Periodic Acid Solution, 500ml, Item #: PAQ030
Sodium Metabisulfite Solution, 125ml, Item #: SME030
Alcian Yellow Solution, 125ml, Item #: ANY030
Toluidine Blue Solution, 6ml x2, Item #: TQF003
Sodium Hydroxide Solution (3%), 8ml, Item #: SHC003

AYH-2 Kit Contents:

Periodic Acid Solution, 30ml, Item #: PAQ030
Sodium Metabisulfite Solution, 30ml, Item #: SME030
Alcian Yellow Solution, 30ml, Item #: ANY030
Toluidine Blue Solution, 3ml, Item #: TQF003
Sodium Hydroxide Solution (3%), 3ml, Item #: SHC003

<u>Catalog Number</u>	<u>Volume</u>
AYH-2	100 Slides
AYH-1	1 kit(s)
AYH-500	500 ml

Mucicarmine Stain Kit (Modified Southgate's)

Mucicarmine Stain Kit (Modified Southgate's) is intended for use in the histological visualization of acid mucopolysaccharides in tissue sections. This product is useful in distinguishing mucin negative undifferentiated squamous cell lesions from mucin positive adenocarcinomas. In addition, this product will stain the mucopolysaccharide capsule of Cryptococcus neoformans.

Mucin: Pink/Red
Capsule of Cryptococcus: Red
Nuclei: Black/Blue
Other tissue components: Yellow

SMS-1 Kit Contents:

Hematoxylin, Mayer's, 125ml, Item #: HMM125
Bluing Reagent, 125ml, Item #: BRT125
Mucicarmine Solution, 125ml, Item #: SMG125
Tartrazine Solution, 125ml, Item #: TZQ125

SMS-2 Kit Contents:

Hematoxylin, Mayer's, 30ml, Item #: HMM030
Bluing Reagent, 30ml, Item #: BRT030
Mucicarmine Solution, 30ml, Item #: SMG030
Tartrazine Solution, 30ml, Item #: TZQ030

<u>Catalog Number</u>	<u>Volume</u>
SMS-2	100 Slides
SMS-1	1 kit(s)

Orcein Stain Kit (For Hepatitis B and Elastic Fibers)

The Orcein Stain may be used in histology procedures for the visualization of Hepatitis B surface Antigen (HBsAg), elastic fibers, and copper associated proteins. HBsAg appears as irregular shaped aggregates in the cytoplasmic region of the cells. This reagent may be used on formalin-fixed, paraffin-embedded sections.

HBsAg: Dark Red/Brown
Elastic Fibers: Dark Red/Brown
Copper Assoc. Proteins: Dark Red/Brown
Background: Light Reddish/Purple

HBK-1 Kit Contents:

Potassium Permanganate Sol. (5%), 30ml, Item #: PPG030
Sulfuric Acid Solution (3%), 30ml, Item #: SAQ030
Oxalic Acid Solution (2%), 125ml, Item #: OQB125
Orcein Solution, 125ml, Item #: OAA125
Differentiating Solution, 125ml, Item #: DSA125

HBK-2 Kit Contents:

Potassium Permanganate Sol. (5%), 30ml, Item #: PPG030
Sulfuric Acid Solution (3%), 30ml, Item #: SAQ030
Oxalic Acid Solution (2%), 30ml, Item #: OQB030
Orcein Solution, 30ml x2, Item #: OAA030
Differentiating Solution, 30ml, Item #: DSA030

<u>Catalog Number</u>	<u>Volume</u>
HBK-2	1 kit(s)
HBK-1	1 kit(s)

Periodic Acid Schiff (PAS) for Fungus Stain Kit

The Periodic Acid Schiff (PAS) for Fungus Stain Kit is intended for use in histological demonstration of fungal organisms in tissue sections. The PAS reaction is also useful in the demonstration of lymphocytes and mucopolysaccharides. The staining patterns of the lymphocytes are helpful in making therapeutic decisions in established cases of lymphocytic leukemia.

Fungal Organisms: Magenta
PAS Positive Material: Magenta
Nuclei: Green/Blue

PASF-1 Kit Contents:

Periodic Acid Solution, 250ml, Item #: PAQ250
Schiff's Solution, 250ml, Item #: SRF250
Light Green Solutino, 125ml, Item #: LGA125

PASF-2 Kit Contents:

Periodic Acid Solution, 30ml, Item #: PAQ030
Schiff's Solution, 30ml, Item #: SRF030
Light Green Solutino, 30ml, Item #: LGA030

<u>Catalog Number</u>	<u>Volume</u>
PASF-2	1 kit(s)
PASF-1	1 kit(s)

Pneumocystis Stain Kit

The Pneumocystis Stain Kit is intended for use in the histological visualization of *Pneumocystis carinii* in cytology smears and paraffin tissue sections. *Pneumocystis carinii* is an opportunistic pathogen that causes severe pulmonary disease in humans, dogs, rats, mice and other vertebrate species with acquired, induced, or inherited immune deficiency syndromes. In addition, this procedure will demonstrate *Actinomyces* and related species, *Nocardia* asteroids, and certain encapsulated bacteria.

Pneumocystis carinii: Violet / Purple
Connective Tissue: Blue / Green
Erythrocytes: Yellow
Mucin: Rose / Purple
Cartilage: Rose / Purple

PCS-1 Kit Contents:

Cresyl Echt Violet Solution (0.1%), 125ml, Item #: CEA125
Naphthol Yellow S Solution, 125ml, Item #: NYS125
Staining Jar, 60ml

PCS-2 Kit Contents:

Cresyl Echt Violet Solution (0.1%), 30ml, Item #: CEA030
Naphthol Yellow S Solution, 30ml, Item #: NYS030

Catalog Number	Volume
PCS-2	100 Slides
PCS-1	1 kit(s)

Quick-Dip Differential Stain Kit

The Quick-Dip Differential Stain Kit provides three reagents for rapid staining of blood smears. Methanol is used to quickly fix smears, followed by differential staining with buffered xanthenes and thiazine dyes.

Expected Results:

Neutrophils: Violet nuclei with dark violet granules and pink cytoplasmic granules.
Eosinophils: Violet nuclei with dark violet granules and bright red cytoplasmic granules.
Monocytes: Violet nuclei with light blue cytoplasm.
Lymphocytes: Violet nuclei with dark violet granules and light blue cytoplasm.
Basophils: Violet nuclei with light blue cytoplasm.
Erythrocytes: Pink to yellowish-red.

Catalog Number	Volume
QDK-1	500 ml ea.
QDK-GL	1 Gal.

Steiner Stain Kit (For Spirochetes)

The Steiner Stain Kit (For Spirochetes) is designed for demonstrating Fungi, *Helicobacter Pylori*, *Legionella pneumophila*, and Spirochete infected tissue. Kit may be used on formalin fixed, paraffin-embedded tissue sections.

Spirochetes: Black to Brown
Helicobacter Pylori: Black to Brown
Fungi: Black to Brown
Legionella pneumophila: Black to Brown
Background: Yellow to Tan

SSK-1 Kit Contents:

Oxidizer Solution, 125ml, Item #: SOS125
Zinc Formalin Solution, 125ml, Item #: ZFN125
Gum Mastic Solution, 125ml, Item #: GUM125
Hydroquinone, 1.5gm, Item #: HFS001.5
Silver Nitrate Solution (0.2%), 125ml, Item #: SNS125
Silver Nitrate Solution (1%), 9ml, Item #: SNY009

Catalog Number	Volume
SSK-1	1 kit(s)

Twort's Counterstain Kit

The Twort's Counterstain Kit is intended for use in histology procedures such as the Gram Stain to provide contrast for easier visualization of various cell components in tissue sections.

Nuclei: Red
Cytoplasm: Light Green

TCK-1 Kit Contents:

Twort's Neutral Red (Part A), 125ml, Item #: TCA125
Twort's Fast Green (Part B), 30ml, Item #: TCB030
Acetic Alcohol Solution (2%), 250ml, Item #: AAF250

Catalog Number	Volume
TCK-1	1 kit(s)

Twort's Gram Stain Kit

The Twort's Gram Stain Kit is designed for positive and negative gram bacteria differentiation in formalin fixed paraffin embedded tissues. Gram negative bacteria stain pink to red, gram positive stain blue, and the background is stained light green.

Gram Positive Bacteria: Blue
Nuclei and Gram Negative Bacteria: Red
Background: Light Green

TGS-1 Kit Contents:

Gentian Violet Solution, 125ml, Item #: GVS125
Lugol's Iodine Solution, 125ml, Item #: LIS125
Gram's Decolorizer Solution, 125ml, Item #: GDS125
Twort's Neutral Red (Part A), 125ml, Item #: TCA125
Twort's Fast Green (Part B), 30ml, Item #: TCB030

Catalog Number	Volume
TGS-1	1 kit(s)

Warthin-Starry Stain Kit

The Warthin-Starry Stain Kit is intended for use in the visualization of Spirochetes, Helicobacter pylori, Legionella pneumophila, and Cat Scratch Fever bacteria. This kit may be used on formalin-fixed, paraffin-embedded sections.

Helicobacter pylori:	Black
Legionella pneumophila:	Black
Spirochetes:	Black
Cat Scratch Fever Bacteria:	Black
Klebsiella:	Brown/Black
Nuclei:	Brown
Background:	Yellow

WSS-1 Kit Contents:

SpiroPrep, 125ml, Item #: SSE125
 Gelatin (4%), Acidulated, 65ml x2, Item #: GSA065
 Silver Nitrate Solution (0.5%), Acidulated, 125ml, Item #: SNB125
 Hydroquinone Solution (0.1%), Acidulated, 30ml x2, Item #: HSA030
 Silver Nitrate Solution (2%), Acidulated, 30ml, Item #: SNA030

<u>Catalog Number</u>	<u>Volume</u>
WSS-1	1 kit(s)

Wright-Giemsa Stain Kit

Wright-Giemsa Stain Kit is intended to be used for differential staining of blood smears, bone marrow and blood parasites.

Erythrocytes:	Pink-Tan
Leukocytes:	Blue-Purple
Neutrophils:	Light Purple granules in cytoplasm.
Eosinophils:	Bright Red-Red-Orange granules in cytoplasm.
Basophils:	Deep Purple granules in cytoplasm.
Platelets:	Violet-Purple granules in light blue cytoplasm.

WGK-1 Kit Contents:

Wright-Giemsa Solution, 500ml, Item #: WGS500
 Phosphate Buffer Solution pH 6.8, 500ml x2, Item #: PBM500

WGK-2 Kit Contents:

Wright-Giemsa Solution, 30ml, Item #: WGS030
 Phosphate Buffer Solution pH 6.8, 60ml x2, Item #: PBM060

<u>Catalog Number</u>	<u>Volume</u>
WGK-2	1 kit(s)
WGK-1	1 kit(s)

Individual Reagents (Mic.)**Alcian Yellow Solution**

Used in Alcian Yellow for H. Pylori.

<u>Catalog Number</u>	<u>Volume</u>
ANY125	125 ml
ANY500	500 ml
ANY999	1000 ml
ANY3800	1 Gal.

Carbol Fuchsin (Kinyoun's)

The Carbol Fuchsin Solution (Kinyoun's) is intended for use in the histological visualization of Acid Fast Bacteria and Tubercle Bacilli. This reagent is a rapid 2-5 minute procedure. The lipid capsule of the acid-fast organism takes up carbol fuchsin and resists decolorization.

Acid Fast Organisms: Bright Red

<u>Catalog Number</u>	<u>Volume</u>
CFK500	500 ml
CFK999	1000 ml

Carbol Fuchsin Counterstain

Carbol Fuchsin Counterstain is a component of the Gram Stain Kit, catalog # GSK-1.

<u>Catalog Number</u>	<u>Volume</u>
CFX125	125 ml
CFX500	500 ml
CFX999	1000 ml

Carbol Fuchsin Solution

A modified Ziehl-Neelson formulation used for staining acid fast bacteria. This stain is a rapid 15-minute procedure. The lipid capsule of the acid-fast organism takes up carbol fuchsin and resists decolorization.

Acid Fast Organisms: Bright Red

<u>Catalog Number</u>	<u>Volume</u>
CFZ125	125 ml
CFZ500	500 ml
CFZ999	1000 ml

Gentian Violet Solution

Gentian Violet Solution is the component of the Gram Stain Kit (catalog# GSK-1) that results in blue staining of the Gram Positive Bacteria. Gentian Violet is intended for the demonstration and differentiation of Gram-positive and Gram-negative bacteria.

<u>Catalog Number</u>	<u>Volume</u>
GVS125	125 ml
GVS500	500 ml
GVS999	1000 ml

Gram's Decolorizer Solution

Component used in the Gram Stain Kit.

<u>Catalog Number</u>	<u>Volume</u>
GDS125	125 ml
GDS500	500 ml
GDS999	1000 ml

H. Pylori Rapid Stain (1-Step)

The H. Pylori Rapid Stain (1-Step) is a single component reagent that has been developed to identify helicobacter pylori in a procedure that requires less than 10 minutes to complete. Procedure is effective for fresh, frozen, and paraffin embedded sections. Helicobacter Pylori has been shown to be the causative organism in some gastric ulcers.

H. Pylori: Dark Blue/Purple
 Cytoplasm: Pink to Red
 Background: Violet
 Nuclei: Blue

<u>Catalog Number</u>	<u>Volume</u>
HPS030	30 ml
HPS500	500 ml
HPS999	1000 ml

Light Green Solution

Light Green Solution is intended for use in histological applications as a general counterstain. When used correctly, various shades of green can be obtained to aid in visualization of tissue components.

<u>Catalog Number</u>	<u>Volume</u>
LGA030	30 ml
LGA125	125 ml
LGA500	500 ml
LGA999	1000 ml
LGA3800	1 Gal.

Lugol's Iodine Solution

<u>Catalog Number</u>	<u>Volume</u>
LIS125	125 ml
LIS500	500 ml
LIS999	1000 ml

Methylene Blue Solution

Methylene Blue Solution has been optimized in our research laboratories to give outstanding results when used in various procedures such as the Ziehl-Neelsen, Fite's, and Gram stain. The stain is also suggested for use in staining a variety of bacteria (Corynebacterium diphtheria, Haemophilus influenzae, Neisseria, etc.) and leukocytes. This reagent produces dark blue nuclei with very light blue cytoplasm.

Nuclei: Dark Blue
 Cytoplasm: Light Blue
 Corynebacterium Diphtheria: Blue Granules
 Escherichia Coli: Blue Rods
 Streptococcus Pyogenes: Blue Cocci

<u>Catalog Number</u>	<u>Volume</u>
MBS125	125 ml
MBS500	500 ml
MBS999	1000 ml

Mucicarmine Solution (Southgate's)

Mucicarmine Solution (Southgate's) is a component of the Mucicarmine Stain Kit (Catalog# SMS-1) and is intended for use in the histological visualization of acid mucopolysaccharides in tissue sections. Mucicarmine Solution is the component responsible for staining Mucin red. This product is useful in distinguishing mucin negative undifferentiated squamous cell lesions from mucin positive adenocarcinomas. In addition, this product will stain the mucopolysaccharide capsule of Cryptococcus neoformans.

<u>Catalog Number</u>	<u>Volume</u>
SMG125	125 ml
SMG500	500 ml
SMG999	1000 ml

Picric Acid - Acetone Solution (0.1%)

Component used in the Gram Stain Kit (Modified Brown & Brenn).

<u>Catalog Number</u>	<u>Volume</u>
PAB125	125 ml
PAB500	500 ml
PAB999	1000 ml

Safranin O Solution (For Gram Staining)

Safranin O Solution (For Gram Staining) has been specially formulated to help visualize gram negative bacteria when using ScyTek's Brown & Brenn Gram stain kit. (BBS-1, BBS-2). Gram negative bacteria stain pink to red.

<u>Catalog Number</u>	<u>Volume</u>
SOG125	125 ml
SOG250	250 ml
SOG500	500 ml
SOG999	1000 ml

Safranin O Solution (For Staining Nuclei)

Safranin O has several uses in histology and cytology but is commonly known for counterstaining nuclei red. This formula contains acetic acid providing a lower pH that reduces non-nucleic background and cytoplasmic staining. This solution is not suitable for bacterial (gram) or cartilage staining.

Nuclei: Red
 Background: Light Red to Pink

<u>Catalog Number</u>	<u>Volume</u>
SOH250	250 ml
SOH500	500 ml
SOH999	1000 ml

SpiroPrep

Component of the Warthin-Starry Stain Kit.

<u>Catalog Number</u>	<u>Volume</u>
SSE125	125 ml
SSE500	500 ml
SSE999	1000 ml

Ancillary (Mic.)

KP Marker Plus

Klinipath KP Marker Plus is a solvent resistant marking pen for permanent writing on glass slides, cassettes and other items in the laboratory. One box contains 12 pens.

<u>Catalog Number</u>	<u>Volume</u>
KPM-1	12 Pen(s)

PAP Pen

This marking pen has been designed to provide a thin film-like barrier when a circle is drawn around the specimen on a slide. This barrier creates the proper surface tension to hold an antibody solution within the target area on the slide. PAP Pen contains a special formulation which is insoluble in alcohol and acetone. It can be removed, if desired, by xylene after the staining procedure is completed.

<u>Catalog Number</u>	<u>Volume</u>
LP0001	1 ea.

PAP Pen-Mini

This marking pen has been designed to provide a thin film-like barrier when a circle is drawn around the specimen on a slide. This barrier creates the proper surface tension to hold an antibody solution within the target area on the slide. PAP Pen contains a special formulation which is insoluble in alcohol and acetone. It can be removed, if desired, by xylene after the staining procedure is completed.

<u>Catalog Number</u>	<u>Volume</u>
LP0002	1 ea.

Wash Solution Concentrate (50X)

Wash Solution Concentrate (50x) is designed to provide optimal rinsing of routine or special stains between steps. In addition, this reagent can be used as a dilution buffer for most aqueous stains. This product is compatible with hand staining procedures and most automated systems.

<u>Catalog Number</u>	<u>Volume</u>
WSC999	1000 ml

Buffers

Acetate Buffer Solution, pH 8.0

Used in the Microwave Copper Stain.

<u>Catalog Number</u>	<u>Volume</u>
SAB500	500 ml
SAB999	1000 ml

Citrate Buffer (10x) pH 6.0

Citrate Buffer (10X) HIER Solution (pH 6.0) is a unique citrate buffer designed to significantly enhance immunohistochemical staining with many commercially available primary antibodies. Diluted 1:10 with deionized or distilled water, this product is easy to use and highly effective.

<u>Catalog Number</u>	<u>Volume</u>
CBB125	125 ml
CBB500	500 ml
CBB999	1000 ml

Citrate Plus (10x) HIER Solution

Citrate Plus (10x) HIER Solution is a unique citrate buffer designed to significantly enhance immunohistochemical staining with many commercially available primary antibodies. Citrate Plus is a solution which that enables rehydration for antigen retrieval to be performed on formalin-fixed, paraffin-embedded tissue sections with one easy convenient step. Diluted 1:10 with deionized or distilled water, this product is easy to use and highly effective. Citrate Plus (10x) HIER Solution is an excellent option when the results will be viewed with an image analysis system. Citrate Plus (10X) can be used in a vegetable steamer, autoclave, or pressure cooker. However, for optimal results it is recommended with autoclave or pressure cooker.

<u>Catalog Number</u>	<u>Volume</u>
CPL500	500 ml
CPL999	1000 ml

EDTA - Saline Buffer (10X Concentrate); pH 8.0

EDTA Buffer (10X) HIER Solution (pH 8.0) is a unique buffer designed to significantly enhance immunohistochemical staining with many commercially available primary antibodies. Diluted 1:10 with deionized or distilled water, this product is easy to use and highly effective.

<u>Catalog Number</u>	<u>Volume</u>
ETA500	500 ml
ETA999	1000 ml

Phosphate Buffer Solution, pH 6.8

Ready-to-Use solution used in the Giemsa Stain Kit.

<u>Catalog Number</u>	<u>Volume</u>
PBM500	500 ml
PBM999	1000 ml

Phosphate Buffered Saline (10x) pH 7.4

ScyTek Phosphate Buffered Saline (10x) pH 7.4 is an optimal formulation of pH stabilizers and salts designed to effectively remove excess material from the microtiter plate wells without disrupting the ELISA binding reaction. By maintaining the proper buffering environment, unbound components can be washed away without suppressing antigen-antibody binding interactions, thereby reducing nonspecific background and increasing the specific signal. Our Wash buffers do not contain hazardous preservatives such as Azide or Mercury that may interfere with antibody-antigen binding interactions. For your convenience wash buffer is offered in a wide variety of formulations to meet the needs of your specific ELISA application. This product can be customized to meet the specific needs of your assay. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
PBD500	500 ml
PBD999	1000 ml
PBD010	10 L
PBD-20000	20 L

Phosphate Buffered Saline (25x) pH 7.6

ScyTek Phosphate Buffered Saline (25x) a perfect wash buffer for use with immunolabeling techniques such as IHC.

ScyTek Phosphate Buffered Saline (25x) is an optimal formulation of pH stabilizers, salts and detergents designed to effectively remove excess material from the microtiter plate wells without disrupting the ELISA binding reaction. By maintaining the proper buffering environment, unbound components can be washed away without suppressing antigen-antibody binding interactions, thereby reducing nonspecific background and increasing the specific signal. Our Wash buffers do not contain hazardous preservatives such as Azide or Mercury that may interfere with antibody-antigen binding interactions. For your convenience wash buffer is offered in a wide variety of formulations to meet the needs of your specific application. This product can be customized to meet the specific needs of your assay. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
PBS125	125 ml
PBS500	500 ml
PBS999	1000 ml
PBS010	10 L
PBS-20000	20 L

Phosphate Buffered Saline plus Tween 20 (10x) pH 7.4

ScyTek Phosphate Buffered Saline + Tween 20 (10x) pH of 7.4 is an optimal formulation of pH stabilizers, salts and detergents designed to effectively remove excess material from the microtiter plate wells without disrupting the ELISA binding reaction. By maintaining the proper buffering environment, unbound components can be washed away without suppressing antigen-antibody binding interactions, thereby reducing nonspecific background and increasing the specific signal. Our Wash buffers do not contain hazardous preservatives such as Azide or Mercury that may interfere with antibody-antigen binding interactions. For your convenience wash buffer is offered in a wide variety of formulations to meet the needs of your specific ELISA application. This product can be customized to meet the specific needs of your assay. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
PBE500	500 ml
PBE999	1000 ml
PBE010	10 L
PBE-20000	20 L

Phosphate Buffered Saline plus Tween 20 (20x) pH 7.6

ScyTek Phosphate Buffered Saline plus Tween 20 (20x) a perfect wash buffer for use with immunolabeling techniques such as IHC.

ScyTek Phosphate Buffered Saline plus Tween 20 (20x) is an optimal formulation of pH stabilizers, salts and detergents designed to effectively remove excess material from the microtiter plate wells without disrupting the ELISA binding reaction. By maintaining the proper buffering environment, unbound components can be washed away without suppressing antigen-antibody binding interactions, thereby reducing nonspecific background and increasing the specific signal. Our Wash buffers do not contain hazardous preservatives such as Azide or Mercury that may interfere with antibody-antigen binding interactions. For your convenience wash buffer is offered in a wide variety of formulations to meet the needs of your specific application. This product can be customized to meet the specific needs of your assay. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
PBT500	500 ml
PBT999	1000 ml
PBT010	10 L
PBT-20000	20 L

Tris Buffered Saline (10x) pH 7.5

ScyTek Tris Buffered Saline (10x) pH of 7.5 is an optimal formulation of pH stabilizers, salts and detergents designed to effectively remove excess material from the microtiter plate wells without disrupting the ELISA binding reaction. By maintaining the proper buffering environment, unbound components can be washed away without suppressing antigen-antibody binding interactions, thereby reducing nonspecific background and increasing the specific signal. Our Wash buffers do not contain hazardous preservatives such as Azide or Mercury that may interfere with antibody-antigen binding interactions. For your convenience wash buffer is offered in a wide variety of formulations to meet the needs of your specific ELISA application. This product can be customized to meet the specific needs of your assay. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
TBD500	500 ml
TBD999	1000 ml
TBD010	10 L
TBD-20000	20 L

Tris Buffered Saline (25x) pH 7.4

ScyTek Tris Buffered Saline (25x) a perfect wash buffer for use with immunolabeling techniques such as IHC.

ScyTek Tris Buffered Saline (25x) is an optimal formulation of pH stabilizers, salts and detergents designed to effectively remove excess material from the microtiter plate wells without disrupting the ELISA binding reaction. By maintaining the proper buffering environment, unbound components can be washed away without suppressing antigen-antibody binding interactions, thereby reducing nonspecific background and increasing the specific signal. Our Wash buffers do not contain hazardous preservatives such as Azide or Mercury that may interfere with antibody-antigen binding interactions. For your convenience wash buffer is offered in a wide variety of formulations to meet the needs of your specific application. This product can be customized to meet the specific needs of your assay. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
TBS500	500 ml
TBS999	1000 ml
TBS010	10 L
TBS-20000	20 L

Tris Buffered Saline plus Tween 20 (10x) pH 7.5

ScyTek Tris Buffered Saline + Tween 20 (10x) pH of 7.5 is an optimal formulation of pH stabilizers, salts and detergents designed to effectively remove excess material from the microtiter plate wells without disrupting the ELISA binding reaction. By maintaining the proper buffering environment, unbound components can be washed away without suppressing antigen-antibody binding interactions, thereby reducing nonspecific background and increasing the specific signal. Our Wash buffers do not contain hazardous preservatives such as Azide or Mercury that may interfere with antibody-antigen binding interactions. For your convenience wash buffer is offered in a wide variety of formulations to meet the needs of your specific ELISA application. This product can be customized to meet the specific needs of your assay. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
TBE500	500 ml
TBE999	1000 ml
TBE010	10 L
TBE-20000	20 L

Tris Buffered Saline plus Tween 20 (20x Concentrate) pH 7.4

ScyTek Tris Buffered Saline plus Tween 20 (20x) is a perfect wash buffer for use with immunolabeling techniques such as IHC or ELISA.

ScyTek Tris Buffered Saline plus Tween 20 (20x) is an optimal formulation of pH stabilizers, salts and detergents designed to effectively remove excess material from the microtiter plate wells without disrupting the ELISA binding reaction. By maintaining the proper buffering environment, unbound components can be washed away without suppressing antigen-antibody binding interactions, thereby reducing nonspecific background and increasing the specific signal. Our Wash buffers do not contain hazardous preservatives such as Azide or Mercury that may interfere with antibody-antigen binding interactions. For your convenience wash buffer is offered in a wide variety of formulations to meet the needs of your specific application. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
TBT500	500 ml
TBT999	1000 ml
TBT010	10 L
TBT-20000	20 L



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