


Cytokeratin 20; Clone EP23 (Ready-To-Use)

Availability/Contents:	<u>Item #</u>	<u>Volume</u>
	A00146-0002	2 ml
	A00146-0007	7 ml
	A00146-0025	25 ml


Description:

Species:	Rabbit
Designation:	Monoclonal
Immunogen:	Rabbits were injected with a synthetic peptide corresponding to residues near the C-terminus in human CK20 protein.
Mol. Weight:	Unknown
Clone:	EP23
Isotype:	Rabbit IgG
Format:	This antibody has been pre-titrated and quality controlled to work on formalin-fixed paraffin-embedded as well as acetone fixed cryostat tissue sections. No further titration is required.
Specificity:	CK20 expression is restricted to cytoplasmic / cell surface staining in positive cells.
Background:	Intermediate-sized filament (IF) protein designated cytokeratin 20 (CK20) is a major cellular protein of mature enterocytes and goblet cells commonly found in mucosal epithelium of the mammalian gastrointestinal tract. Cytokeratin 20 is an exclusive type I keratin that is expressed in adenocarcinomas of the colon, stomach, pancreas, and bile system. It is also expressed in carcinomas. CK20 is basically non-reactive in squamous cell carcinomas and adenocarcinomas of the breast, lung, and endometrium, as well as non-mucinous tumors of the ovary and small cell carcinomas. Transcriptional regulation of keratin genes in the intestinal epithelium occurs at the level of both immature and terminally differentiated epithelial cells, and is tightly regulated during both fetal development and cryptovillus differentiation of the intestinal epithelium. The CK20 antibody has recently been reported to be useful in distinguishing between primary and metastatic lung adenocarcinoma. CK20 expression was significantly more prevalent in adenocarcinoma that originated in the GI tract than that of pulmonary or breast origin.
Species Reactivity:	Human
Positive Control:	Colon for normal tissue and colon cancer for abnormal tissue.
Cellular Localization:	Cytoplasmic / cell membrane
Titer/Working Dilution:	No further dilution is required.
Microbiological State:	This product is not sterile.

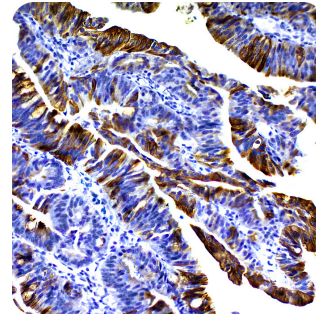
 Storage: 2° C  8° C


 ScyTek Laboratories, Inc.
 205 South 600 West
 Logan, UT 84321
 U.S.A.

 IVD

 EmergoEurope (31)(0) 70 345-8570
 Molsnstraat 15
 2513 BH Hague, The Netherlands

Uses/Limitations: Not to be taken internally.
 For In Vitro Diagnostic Use.
 This product is intended for qualitative immunohistochemistry with normal and neoplastic formalin-fixed, paraffin-embedded tissue sections, to be viewed by light microscopy.
 Do not use if reagent becomes cloudy.
 Do not use past expiration date.
 Non-Sterile.



Ordering Information and Current Pricing at www.scytek.com

Human Colorectal Carcinoma stained with UltraTek HRP and DAB Chromogen.

Procedure:

1. **Tissue Section Pretreatment:** Staining of formalin fixed, paraffin embedded tissue sections is enhanced by pretreatment with Citrate Plus (ScyTek catalog# CPL500) or 10mM citrate buffer, pH 6.0 (ScyTek Catalog# CBB500, see IFU for instructions).
2. **Primary Antibody Incubation Time:** We suggest an incubation period of 30 minutes at room temperature. However, depending upon the fixation conditions and the staining system employed, optimal incubation should be determined by the user.
3. **Visualization:** For maximum staining intensity we recommend the “UltraTek HRP Anti-Polyvalent Lab Pack” (ScyTek catalog# UHP125, see IFU for instructions) combined with the “DAB Chromogen/Substrate Bulk Pack (High Contrast)” (ScyTek catalog# ACV500, see IFU for instructions).


Precautions: Contains Sodium Azide as a preservative (0.09% w/v).
 Do not pipette by mouth.
 Avoid contact of reagents and specimens with skin and mucous membranes.
 Avoid microbial contamination of reagents or increased nonspecific staining may occur.
 This product contains no hazardous material at a reportable concentration according to U.S. 29 CFR 1910.1200, OSHA Hazardous Communication Standard and EC Directive 91/155/EC.


References:

1. Moll R, *et al. Differentiation* 53(2):75-93, 1993.
2. Calnek D, *et al. Differentiation* 53(2):95-104.
3. Su YC, *et al. Kaohsiung J Med Sci* 22(1):14-9, 2006.
4. Sack MJ, Roberts SA. *Diagn Cytopathol* 16(2): 132-36, 1997.


Note: Cytokeratin 20 bearing EP Clone EP23 is manufactured using Epitomic’s RabMAb® technology under U.S. Patent Nos. 5,675,063 and 7,402,409.

Warranty: No products or “Instructions For Use (IFU)” are to be construed as a recommendation for use in violation of any patents. We make no representations, warranties or assurances as to the accuracy or completeness of information provided on our IFU or

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Instructions For Use
A00146-IFU-IVD

Rev. Date: Feb. 6, 2015


Revision: 1

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website. Our warranty is limited to the actual price paid for the product. ScyTek Laboratories, Inc. is not liable for any property damage, personal injury, time or effort or economic loss caused by our products. Immunohistochemistry is a complex technique involving both histological and immunological detection methods. Tissue processing and handling prior to immunostaining can cause inconsistent results. Variations in fixation and embedding or the inherent nature of the tissue specimen may cause variations in results. Endogenous peroxidase activity or pseudoperoxidase activity in erythrocytes and endogenous biotin may cause non-specific staining depending on detection system used.

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