


CD45RB; Clone PD7/26


(Ready to Use)

Availability/Contents:	<u>Item #</u>	<u>Volume</u>
	A00130-0002	2 ml
	A00130-0007	7 ml
	A00130-0025	25ml


Description:

Species:	Mouse
Immunogen:	Neoplastic cells isolated from T-Cell lymphoma were used as the immunogen to raise antibody to CD45 Clone PD7/26.
Clone:	PD7/26
Isotype:	Mouse IgG1
Format:	This antibody is provided in a phosphate buffer saline containing 1% BSA.
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.
Background:	CD45RB is an isoform of CD45 with exon 5 splicing (encodes B cell determinant). It is a 220 kD glycoprotein expressed on peripheral B cells, naïve T cells, thymocytes, weakly on macrophages, and dendritic cells. It plays a critical role in TCR and BCR signaling. CD45RB expression is downregulated upon activation of T cells and maturation from naïve to memory cells. Additionally, functionally distinct CD4 ⁺ T cell subsets, which secrete differing cytokine profiles, can be separated by CD45RB intensity. The primary ligands for CD45 are galectin-1, CD2, CD3, CD4 and Thy-1. CD45RB expression also refines delineation of memory CD4 T cells and aids in understanding their development. CR45RB also identify and quantitate naïve, effector and memory cells in lymphoid and non-lymphoid organs.
Species Reactivity:	Human.
Positive Control:	Tonsil.
Cellular Localization:	Cell Membrane/Membrane raft.
Titer/ Working Dilution:	No further dilution is required.
Microbiological State:	This product is not sterile.

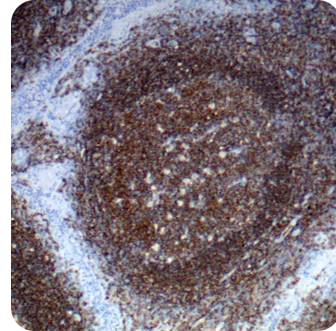
Storage: 2° C  8° C

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

 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.
 Use caution when handling reagents.
 Non-Sterile.



Human Tonsil stained with Ultra-Tek HRP and DAB Chromogen.

Ordering Information and Current Pricing at www.scytek.com

Procedure:

1. **Tissue Section Pretreatment (Highly Recommended):** Staining of formalin fixed, paraffin embedded tissue sections is significantly enhanced by pretreatment with Citrate Plus (ScyTek catalog# CPL500).
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. Altin JG, Sloan EK. The role of CD45 and CD45-associated molecules in T cell activation. *Immunol. Cell Biol.* 1997;75(5):430-45.
2. Dahlke MH, Larsen SR, Rasko JE, Schlitt HJ. The biology of CD45 and its use as a therapeutic target. *Leuk Lymphoma.* 2004;45(2):229-36.
3. Penninger JM, Irie-Sasaki J, Sasaki T, Oliveira-dos-Santos AJ. CD45: new jobs for an old acquaintance. *Nat Immunol.* 2001;2(5):389-96.
4. Tchilian EZ, Beverley PC. CD45 in memory and disease. *Arch Immunol Ther. Exp (Warsz).* 2002;50(2):85-93.

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