

Mouse CD45RB Monoclonal Antibody | anti-PTPRC antibody

CD45RB (B-Cell Marker) Mouse Monoclonal Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA62848	Mouse	Human.Does not react with Rat and Monkey	Immunohistochemistry, Western Blot, Immunofluorescence, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

CD45RB; Monoclonal Antibody; CD45RB (B-Cell Marker) Mouse Monoclonal Antibody; B220; CD45R; GP180; Leukocyte common antigen (LCA); Loc; Ly-5; Lyt-4; Protein tyrosine phosphatase receptor type C (PTPRC); Receptor-type tyrosine-protein phosphatase C; T200 glycoprotein; anti-PTPRC antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human. Does not react with Rat and Monkey
Clonality	Monoclonal
Isotype	IgG1, kappa
Clone Number	PTPRC/1132
Specificity	CD45R, also designated CD45 and PTPRC, is identified as a transmembrane glycoprotein, broadly expressed among hematopoietic cells. Multiple isoforms of CD45R are distributed throughout the immune system. These isoforms arise because of alternative splicing of exons 4, 5, and 6. The corresponding protein domains are characterized by the binding of monoclonal antibodies specific for CD45RA (exon 4), CD45RB (exon 5), CD45RC (exon 6) and CD45RO (exons 4 to 6 spliced out). The variation in these isoforms is localized to the extracellular domain of CD45R, while the intracellular domain is conserved. CD45RB is expressed on mature B-lymphocytes and the majority of lymphomas and leukemias of B-cell origin.
Form/Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	1306
Applicable Applications for anti-PTPRC antibody	IHC (Immunohistochemistry), WB (Western Blot), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Cellular Localization	Cell Surface and Cytoplasmic
Immunogen	Recombinant full-length human CD45RB protein
Hu-Chromosome Location	1q31.3
Positive Control	Ramos, U-698, or GA-10 cells. Tonsil
Preparation and Storage	Antibody with azide - store at 2 to 8 degree C. Antibody without azide - store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

IMAGES



WB (Western Blot)
Western Blot Analysis of Daudi Cell Lysate using CD45RB Monoclonal Antibody (PTPRC/1132).



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Lymphoma stained with CD45RB Monoclonal Antibody (PTPRC/1132).



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Tonsil stained with CD45RB Monoclonal Antibody (PTPRC/1132).

ADDITIONAL INFORMATION

References	West, K.P., et al. 1986. The demonstration of B-cell, T-cell and myeloid antigens in paraffin sections. J. Pathol. 150: 89-101. Streuli, M., et al. 1987. Differential usage of three exons generates at least five different mRNAs encoding human leukocyte common antigens. J. Exp. Med. 166: 1548-1566
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NCBI AND UNIPROT INFORMATION

NCBI GI #	392307007
NCBI GeneID	5788
NCBI Accession #	NP_002829.3
NCBI GenBank Nucleotide #	NM_002838.4
UniProt Accession #	P08575; Q16614; Q9H0Y6; A8K7W6
Molecular Weight	180-220kDa
NCBI Official Full Name	receptor-type tyrosine-protein phosphatase C isoform 1
NCBI Official Synonym Full Names	protein tyrosine phosphatase, receptor type C
NCBI Official Symbol	PTPRC
NCBI Official Synonym Symbols	LCA; LY5; B220; CD45; L-CA; T200; CD45R; GP180
NCBI Protein Information	receptor-type tyrosine-protein phosphatase C
UniProt Protein Name	Receptor-type tyrosine-protein phosphatase C
UniProt Gene Name	PTPRC
UniProt Synonym Gene Names	CD45; L-CA
UniProt Entry Name	PTPRC_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.