

Mouse anti-Human CD45/LCA Antibody | anti-CD45/LCA antibody

CD45/LCA (B-Cell Marker)

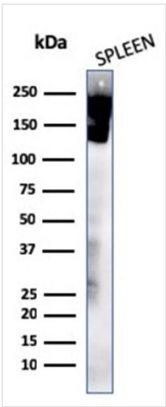
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA215173	Mouse	Human	Immunohistochemistry, Western Blot, Immunofluorescence, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

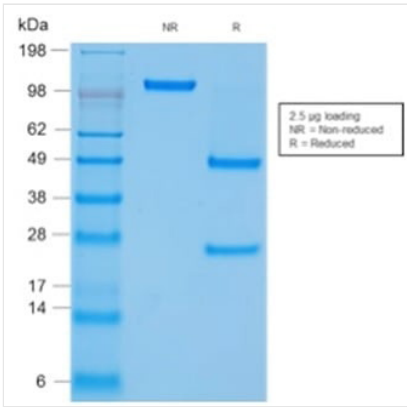
CD45/LCA; CD45/LCA (B-Cell Marker); B220; CD45R; GP180; Leukocyte common antigen (LCA); Loc; Ly-5; Lyt-4; Protein tyrosine phosphatase receptor type C (PTPRC); Receptor-type tyrosine-protein phosphatase C; T200 glycoprotein; anti-CD45/LCA antibody

PRODUCT SPECIFICATIONS

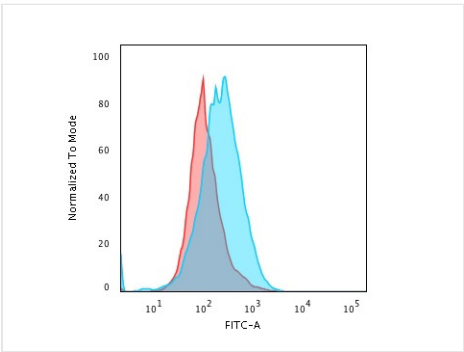
Host	Mouse
Reactivity	Human
Isotype	IgG1, kappa
Clone Number	rPTPRC/1460
Specificity	CD45R, also designated CD45 and PTPRC, has been identified as a transmembrane glycoprotein, broadly expressed among hematopoietic cells. Multiple isoforms of CD45R are distributed throughout the immune system according to cell type. 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. CD45R functions as a phosphor-tyrosine phosphatase. Antibody to CD45 is useful in differential of lymphoid tumors from non-hematopoietic undifferentiated neoplasms.
Purity/Purification	Purified Ab with BSA and Azide at 200ug/ml OR Purified Ab WITHOUT BSA and Azide at 1.0mg/ml
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-CD45/LCA antibody	IHC (Immunohistochemistry), WB (Western Blot), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Positive Control	Ramos, U-698 or GA-10 cells. Tonsil and Spleen.
Immunogen	Human recombinant full-length CD45 protein
Cellular Localization	Cell Surface
Hu-chromosome Location	1q31.3
Antibody Type	Recombinant Mouse Monoclonal Antibody
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.



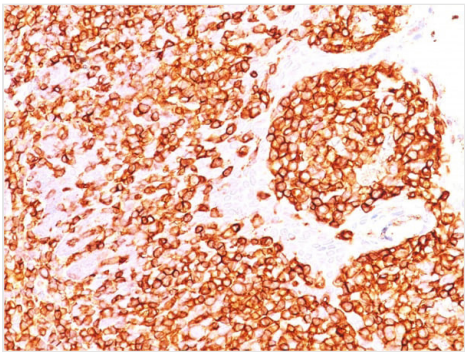
WB (Western Blot)
Western Blot Analysis of human spleen tissue lysates using CD45 Mouse Recombinant Monoclonal Antibody (rPTPRC/1460)



SDS-PAGE
SDS-PAGE Analysis Purified CD45 Mouse Recombinant Monoclonal Antibody (rPTPRC/1460). Confirmation of Integrity and Purity of Antibody



FCM/FACS (Flow Cytometry)
Flow Cytometric Analysis of paraformaldehyde-fixed Raji cells using CD45 Mouse Recombinant Monoclonal Antibody (rPTPRC/1460) followed by Goat anti-Mouse-IgG-CF488 (Blue); Isotype Control (Red).



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Tonsil stained with CD45 Mouse Recombinant Monoclonal Antibody (rPTPRC/1460).

ADDITIONAL INFORMATION

References	1. Michie SA et. al. American Journal of Clinical Pathology, 1987, 88(4):457-62. 2. Gatter KC et. al. Lancet, 1985 Jun 8, 1(8441):1302-5.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	392307007
NCBI GeneID	5788
NCBI Accession #	NP_002829.3
NCBI GenBank Nucleotide #	NP_002829.3
UniProt Accession #	P08575
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.

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Online datasheet: <https://stage.aaabiotech.com/mouse-human-antibody/cd45-lca/215173>