

Mouse anti-Human CD45RA Monoclonal Antibody | anti-PTPRC antibody

CD45RA (Leucocyte Marker) Mouse Monoclonal Antibody

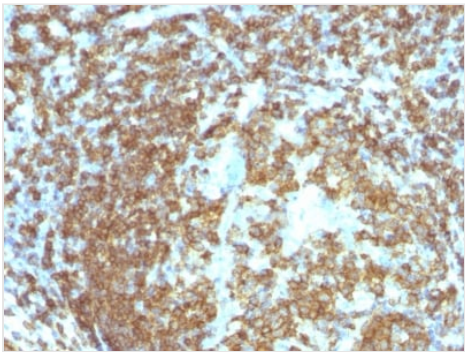
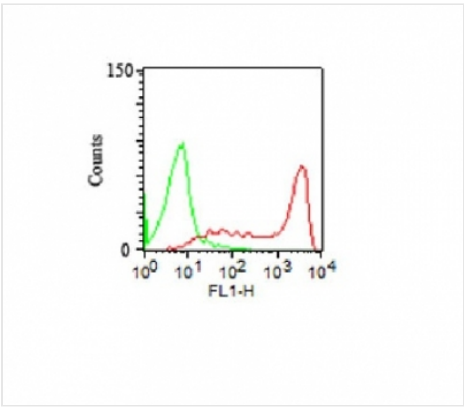
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA62550	Mouse	Human	Immunohistochemistry, Immunofluorescence, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

CD45RA; Monoclonal Antibody; CD45RA (Leucocyte 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
Clonality	Monoclonal
Isotype	IgG2a, kappa
Clone Number	158-4D3
Specificity	Recognizes a protein of 205kDa-220kDa, identified as CD45RA [Workshop V; Code CD45.38]. CD45RA is isoforms of the human leukocyte common antigen (CD45). Human CD45 contains three exons which encode peptide segments designated A, B and C, respectively. The differential splicing of the exons generates at least five isoforms, ABC, AB, BC, B and O. 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. T-cells expressing CD45RA are naive or virgin T-cells. T-cells expressing CD45RO are memory T-cells. CD45RA and CD45RO define complementary, predominantly non-overlapping populations of resting peripheral T-cells. This MAb is useful in study on the subpopulation of CD4+ or CD8+ T-cells. It can especially be used to differentiate T-cell lymphomas (CD45RO +ve) from B cell lymphomas (CD45RA +ve).
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), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Cellular Localization	Cell Surface
Immunogen	Stimulated human leukocytes
Hu-Chromosome Location	1q31.3
Positive Control	Daudi, Raji, IM9 and human lymphocytes. Human lymph nodes and tonsils.
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.



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Tonsil stained with CD45RA Monoclonal Antibody (158-4D3).

FCM/FACS (Flow Cytometry)
FACS Analysis human of PBMC using CD45RA Monoclonal Antibody (158-4D3) (red) and isotype control (green).

ADDITIONAL INFORMATION

References	Oxford University Press, Oxford, p511-515, 1995. Clement LT. J Clin Immunol. 1992, 12(1):1-10. Yamada A, et al. Cell Immunol. 1992, 142(1):114-24. Mahalingam M, et al. Clin Immunol Immunopathol. 1996,81(2):210-214. Jacob MC, et al. Am J Hematol. 1992, 39(1):45-5
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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	205-220kDa
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

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