

Mouse anti-Human CD45RO Monoclonal Antibody | anti-CD45RO antibody

Monoclonal Antibody to CD45RO (Clone: C45.1)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA78496	Mouse	Human	Flow Cytometry, Functional Assay, Immunohistochemistry

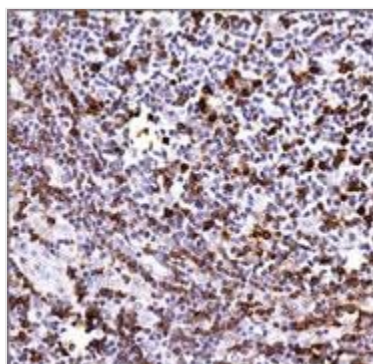
PRODUCT SYNONYMS

CD45RO; Monoclonal Antibody; Monoclonal Antibody to CD45RO (Clone: C45.1); Antibody to CD45RO; Anti-CD45RO Antibody; CD45RO Antibody; PTPRC; CD45; Leukocyte common antigen; T200; anti-CD45RO antibody

PRODUCT SPECIFICATIONS

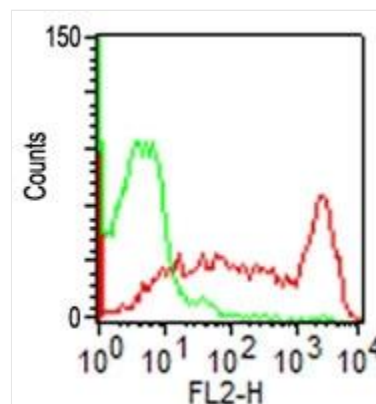
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2a, kappa
Clone Number	C45.1
Purity/Purification	Protein G Chromatography
Form/Format	100 ug in 200 ul PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic.
Sequence Length	1306
Applicable Applications for anti-CD45RO antibody	FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry)
Antigen	CD45RO
Immunogen Information	Interleukin-2-dependent human T lymphocytes were used as the immunogen for the CD45RO antibody.
Preparation and Storage	Store the antibody at 4 degree C, stable for 6 months. For long-term storage, store at -20 degree C. Avoid repeated freeze and thaw cycles.

IMAGES



IHC (Immunohistochemistry)

Fig. 2 Immunohistochemical analysis of CD45RO in human tonsil using CD45RO antibody (Clone: C45.1) at 1:500 dilution.



FCM/FACS (Flow Cytometry)

Fig.1: Cell Surface flow analysis of hCD45RO in PBMC (Lymphocytes gated) using 0.5 ug antibody per 10^6 cells. Green represents isotype control; red represents anti-hCD45RO antibody (10-7509). Goat anti-mouse PE conjugated secondary antibody was used.

ADDITIONAL INFORMATION

Related Product Information for anti-CD45RO antibody	The CD45RA and CD45RO isoforms of the leukocyte common antigen identify functionally distinct naive and memory T cell subsets. In vitro, CD45RA+ / CD45RO - peripheral blood lymphocytes (PBL) can be converted to CD45RA- / CD45RO + phenotype upon activation in the presence of IL-2. Both CD3+ and CD3-/CD56+ lymphocyte subsets can be converted to CD45RO + lymphocytes. Expression of CD45RO was observed only in response to IL-2 and was not observed during long-term culture in IL-4, IL-6, or IL-7. This antibody recognizes an 180kDa protein, identified as isoform of leukocyte common antigen (CD45RO). This antibody reacts with mature activated T-cells, most thymocytes, and a sub-population of resting T-cells within both CD4 and CD8 subsets. Shows no reactivity with normal B or natural killer cells, but reacts with granulocytes and monocytes. Though this antibody is useful to identify T-cell lymphomas and leukemia, rare staining with B cell lymphomas reported.
Product Categories/Family for anti-CD45RO antibody	Antibodies; Cancer Marker

NCBI AND UNIPROT INFORMATION

NCBI GI #	392307007
NCBI GeneID	5788
NCBI Accession #	NP_002829.3
NCBI GenBank Nucleotide #	NP_002829.3
UniProt Accession #	P08575
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/monoclonal/cd45ro-antibody-clone-c45-1-flow-cytometry-immunohistochemistry-elisa/78496>