

CD45RO (T-Cell Marker) Antibody - With BSA and Azide
Mouse Monoclonal Antibody [Clone SPM125]
Catalog # AH10688

Specification

CD45RO (T-Cell Marker) Antibody - With BSA and Azide - Product Information

Application	IHC-P, IF, FC
Primary Accession	P08575
Other Accession	5788 , 654514
Reactivity	Human, Chimpanzee
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse / IgG2a, kappa
Calculated MW	180-185kDa KDa

CD45RO (T-Cell Marker) Antibody - With BSA and Azide - Additional Information

Gene ID 5788

Other Names

Receptor-type tyrosine-protein phosphatase C, 3.1.3.48, Leukocyte common antigen, L-CA, T200, CD45, PTPRC, CD45

Application Note

IHC-P ~ ~ N/A
IF ~ ~ 1:50 ~ 200
FC ~ ~ 1:10 ~ 50

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.

Storage

Store at 2 to 8°C. Antibody is stable for 24 months.

Precautions

CD45RO (T-Cell Marker) Antibody - With BSA and Azide is for research use only and not for use in diagnostic or therapeutic procedures.

CD45RO (T-Cell Marker) Antibody - With BSA and Azide - Protein Information

Name PTPRC ([HGNC:9666](#))

Synonyms CD45

Function

Protein tyrosine-protein phosphatase required for T-cell activation through the antigen receptor (PubMed: [35767951](http://www.uniprot.org/citations/35767951)). Acts as a positive regulator of T-cell coactivation upon binding to DPP4. The first PTPase domain

has enzymatic activity, while the second one seems to affect the substrate specificity of the first one. Upon T-cell activation, recruits and dephosphorylates SKAP1 and FYN. Dephosphorylates LYN, and thereby modulates LYN activity (By similarity). Interacts with CLEC10A at antigen presenting cell-T cell contact; CLEC10A on immature dendritic cells recognizes Tn antigen- carrying PTPRC/CD45 receptor on effector T cells and modulates T cell activation threshold to limit autoreactivity.

Cellular Location

Cell membrane; Single-pass type I membrane protein. Membrane raft. Synapse. Note=Colocalized with DPP4 in membrane rafts.

Tissue Location

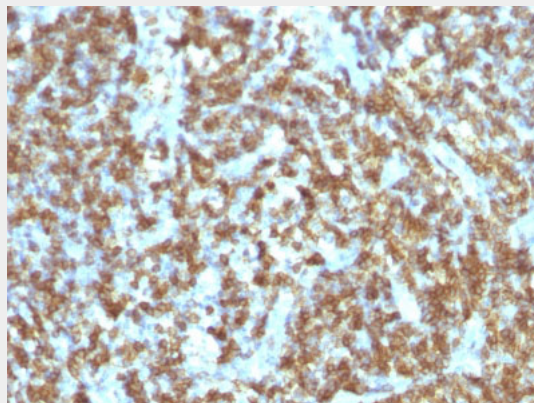
Isoform 1: Detected in thymocytes. Isoform 2: Detected in thymocytes. Isoform 3: Detected in thymocytes. Isoform 4: Not detected in thymocytes. Isoform 5: Detected in thymocytes. Isoform 6: Not detected in thymocytes. Isoform 7: Detected in thymocytes Isoform 8: Not detected in thymocytes.

CD45RO (T-Cell Marker) Antibody - With BSA and Azide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CD45RO (T-Cell Marker) Antibody - With BSA and Azide - Images



Formalin-fixed, paraffin-embedded human Lymphoma stained with CD45RO Monoclonal Antibody (SPM125).

CD45RO (T-Cell Marker) Antibody - With BSA and Azide - Background

Recognizes a 180-185kDa protein, identified as isoform of leukocyte common antigen (CD45RO). The epitope recognized by this antibody is sensitive to neuraminidase digestion. This antibody reacts with mature activated T-cells, most thymocytes, and a sub-population of resting T-cells within both CD4 and CD8 subsets. It shows no reactivity with normal B or natural killer cells, but reacts with granulocytes and monocytes. Reportedly, it is useful to identify T-cell lymphomas and

leukemias. It rarely stains NK cells or B-cell lymphomas.

CD45RO (T-Cell Marker) Antibody - With BSA and Azide - References

Knapp W, et al. Eds. 1989. Leucocyte Typing IV. Oxford University Press. New York.2. Ishii T, et al. 2001. P. Natl. Acad. Sci. USA 98:12138.3. Ponsford M, et al. 2001. Clin. Exp. Immunol. 124:315.4. Yamada M, et al. 1996. Stroke 27:1155. 5. Sakkas LI, et al. 1998. Clin. Diagn. Lab. Immunol. 5:430