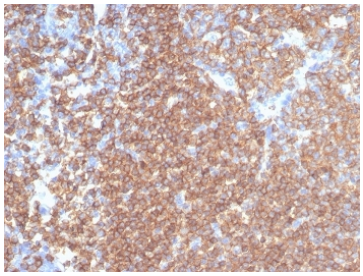
CD45RA Antibody (Leukocyte marker) [clone rPTPRC/7284] (V9759)

Catalog No.	Formulation	Size
V9759-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V9759-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V9759SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

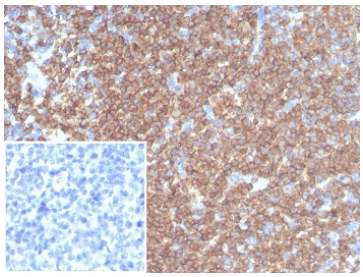
Recombinant MOUSE MONOCLONAL

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Recombinant Mouse Monoclonal
Isotype	Mouse IgG1, kappa
Clone Name	rPTPRC/7284
Purity	Protein A/G affinity
UniProt	P08575
Localization	Cell surface, Cytoplasm
Applications	Immunohistochemistry (FFPE): 1-2ug/ml
Limitations	This recombinant CD45RA antibody is available for research use only.



IHC staining of FFPE human tonsil tissue with recombinant CD45RA antibody (clone rPTPRC/7284). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human tonsil tissue with recombinant CD45RA antibody (clone rPTPRC/7284). Negative control inset: PBS instead of primary antibody to control for secondary binding. HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.

Description

CD45RA antibody targets CD45RA, a distinct isoform of the Leukocyte common antigen encoded by PTPRC. CD45 is a transmembrane receptor-type tyrosine phosphatase expressed on nearly all leukocytes and is indispensable for adaptive immune signaling. CD45RA antibody detects the exon A-containing isoform, which is characteristic of naive T cells and certain early-stage lymphocyte populations.

Alternative splicing of the PTPRC gene generates multiple CD45 isoforms that differ in extracellular sequence composition. CD45RA retains exon A and exhibits a specific glycosylation profile. The cytoplasmic phosphatase domains regulate activation signals by modulating Src family kinase phosphorylation states. CD45RA antibody is frequently utilized in immunologic studies to distinguish naive T cells from central and effector memory T cells, where CD45RO predominates.

Changes in CD45 isoform distribution are associated with immune senescence, infection, and hematologic malignancies. CD45RA antibody enables precise analysis of leukocyte differentiation states and immune compartment dynamics in research applications.

CD45RA is an alternatively spliced form of PTPRC widely studied in lymphocyte differentiation and immune cell phenotyping; learn more about the target and related reagents on our CD45RA Antibody page.

Application Notes

Optimal dilution of the recombinant CD45RA antibody should be determined by the researcher.

Immunogen

Recombinant full-length human PTPRC protein was used as the immunogen for the recombinant CD45RA antibody.

Storage

Aliquot the recombinant CD45RA antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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