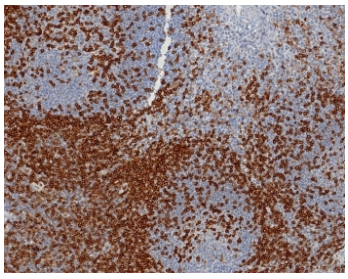
CD45RA Antibody [clone PTPRC/8124R] (V4764)

Catalog No.	Formulation	Size
V4764-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4764-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4764SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

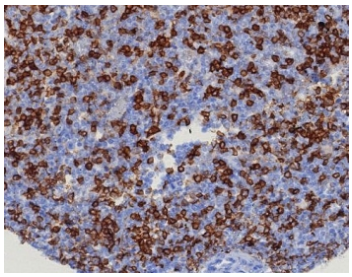
Recombinant RABBIT MONOCLONAL

Bulk quote request

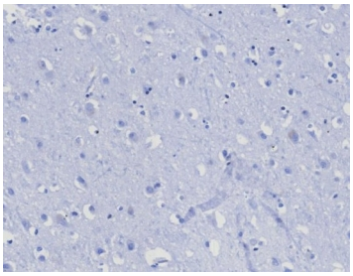
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	PTPRC/8124R
Purity	Protein A/G affinity
UniProt	P08575
Localization	Cell surface, Cytoplasm
Applications	Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT
Limitations	This CD45RA antibody is available for research use only.



IHC staining of FFPE human tonsil tissue with CD45RA antibody (clone PTPRC/8124R). 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 CD45RA antibody (clone PTPRC/8124R). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



Negative control: IHC testing of FFPE human brain tissue with CD45RA antibody (clone PTPRC/8124R) at 2ug/ml. HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.

Description

CD45RA antibody detects CD45RA, a splice variant of the Leukocyte common antigen encoded by the PTPRC gene. CD45 functions as a receptor-type protein tyrosine phosphatase essential for signaling through the T cell receptor and B cell receptor pathways. CD45RA antibody identifies the RA isoform, which is prominently expressed on naive T cells and certain B cell populations, serving as a widely used immunophenotypic marker in immunology research.

CD45RA differs from other CD45 isoforms by inclusion of exon A in its extracellular domain. This structural difference influences glycosylation patterns and may affect receptor interactions at the cell surface. The intracellular phosphatase domains of CD45 dephosphorylate inhibitory tyrosine residues on Src family kinases, thereby promoting antigen receptor signaling. CD45RA antibody is frequently applied in studies examining T cell maturation, thymic development, and immune reconstitution following therapy.

Alterations in CD45 splicing and expression are linked to hematologic malignancies and immune disorders. CD45RA antibody provides a reliable approach for studying immune cell differentiation and leukocyte lineage characterization in research settings.

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 CD45RA antibody should be determined by the researcher.

Immunogen

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

Storage

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

Copyright © NSJ Bioreagents. All rights reserved.