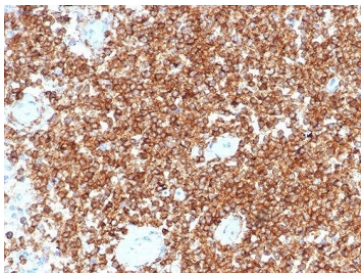
CD45RA Antibody [clone PTPRC/4367R] (V4759)

Catalog No.	Formulation	Size
V4759-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4759-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4759SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

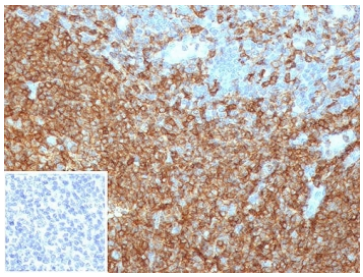
Recombinant RABBIT MONOCLONAL

Bulk quote request

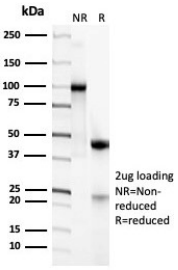
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	PTPRC/4367R
Purity	Protein A/G affinity
UniProt	P08575
Localization	Cell surface
Applications	Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT
Limitations	This CD45RA antibody is available for research use only.



IHC staining of FFPE human tonsil tissue with CD45RA antibody (clone PTPRC/4367R). 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/4367R). Inset: PBS used in place of primary Ab (secondary Ab negative control). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



SDS-PAGE analysis of purified, BSA-free CD45RA antibody (clone PTPRC/4367R) as confirmation of integrity and purity.

Description

CD45RA antibody recognizes CD45RA, an isoform of Protein tyrosine phosphatase receptor type C that plays a pivotal role in lymphocyte signaling. Encoded by the PTPRC gene, CD45 is expressed on the surface of most hematopoietic cells and is critical for maintaining proper immune responses. CD45RA antibody selectively detects the RA isoform, which is predominantly expressed on naive T lymphocytes prior to antigen-driven differentiation.

The CD45 protein contains an extracellular domain subject to alternative splicing, a single transmembrane helix, and two cytoplasmic phosphatase domains responsible for modulating phosphorylation events. Inclusion of exon A defines the CD45RA isoform. Through dephosphorylation of regulatory tyrosines on Src family kinases, CD45 facilitates T cell receptor signal propagation. CD45RA antibody is commonly used to evaluate lymphocyte subsets in studies of immune activation, aging, and disease.

Aberrant CD45 expression patterns have been reported in leukemias and lymphoproliferative disorders. CD45RA antibody supports research focused on immune phenotyping, lymphocyte trafficking, and tumor-associated immune infiltration.

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

A recombinant partial protein sequence (within amino acids 1-600) from the human 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.