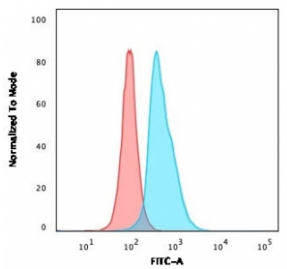
CD45RO Antibody [clone CDLA45RO-1] (V7044)

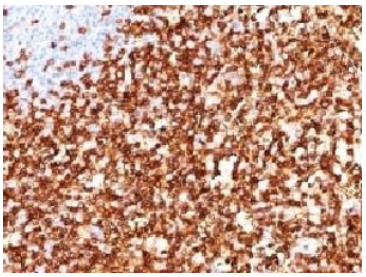
Catalog No.	Formulation	Size
V7044-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7044-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7044SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V7044IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

Bulk quote request

Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a, kappa
Clone Name	CDLA45RO-1
Purity	Protein G affinity chromatography
UniProt	P08575
Localization	Cell surface
Applications	Flow Cytometry: 0.5-1ug/million cells Immunohistology (FFPE): 0.25-0.5ug/ml for 30 min at RT (1) Prediluted IHC only format: incubate for 30 min at RT (2)
Limitations	This CD45RO antibody is available for research use only.



Flow cytometry testing of PFA-fixed human Jurkat cells with CD45RO antibody (clone CDLA45RO-1); Red=isotype control, Blue= CD45RO antibody.



IHC testing of FFPE human tonsil and CD45RO antibody (clone CDLA45RO-1). HIER: boil in pH6 10mM citrate buffer for 10-20 minutes, followed by cooling at RT for 20 minutes, prior to staining.

Description

CD45RO is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitosis, and oncogenic transformation. CD45RO contains an extracellular domain, a single transmembrane segment and two tandem intracytoplasmic catalytic domains, and thus is classified as a receptor type PTP. It has been shown to be an essential regulator of T- and B-cell antigen receptor signaling. It functions through either direct interaction with components of the antigen receptor complexes, or by activating various Src family kinases required for the antigen receptor signaling. It also suppresses JAK kinases, and thus functions as a regulator of cytokine receptor signaling. [RefSeq]

CD45RO is a PTPRC isoform widely associated with memory T cells and lymphocyte differentiation; learn more about this target and related reagents on our CD45RO Antibody page.

Application Notes

Titering of the CD45RO antibody may be required for optimal performance.

1. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Immunogen

Recombinant human protein was used as immunogen for this CD45RO antibody.

Storage

The CD45RO antibody (with azide) can be stored at 2-8oC. The azide-free format should be aliquoted and stored at -20oC or colder.

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