

## Product Datasheet

### CD45RO Antibody (orb2641619)

<b>Catalog Number</b>	orb2641619
<b>Category</b>	Antibodies
<b>Description</b>	<p>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]</p>
<b>Clonality</b>	Monoclonal
<b>Species/Host</b>	Mouse
<b>Isotype</b>	Mouse IgG2a, kappa
<b>Conjugation</b>	Unconjugated
<b>Reactivity</b>	Human
<b>Buffer/Preservatives</b>	1 mg/ml in 1X PBS; rAlbumin free, sodium azide free
<b>Purification</b>	Protein G affinity chromatography
<b>Immunogen</b>	Recombinant human protein was used as immunogen for this CD45RO antibody.
<b>UniProt ID</b>	<b>P08575</b>
<b>Tested applications</b>	FACS, IHC-P

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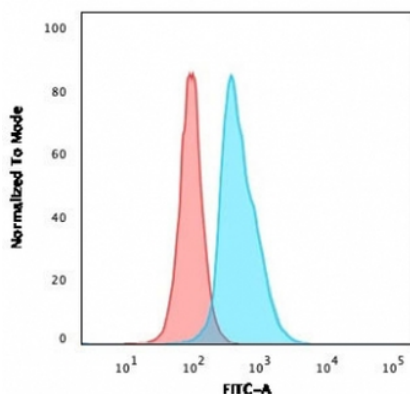
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<b>Dilution range</b>	Flow Cytometry: 0.5-1ug/million cells, Immunohistology (FFPE): 0.25-0.5ug/ml for 30 min at RT (1), Prediluted IHC only format: incubate for 30 min at RT (2)
<b>Application notes</b>	Titering of the CD45RO antibody may be required 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.
<b>Antibody Type</b>	Primary Antibody
<b>Clone Number</b>	CDLA45RO-1
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Note</b>	For research use only
<b>Expiration Date</b>	12 months from date of receipt.



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

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

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