CD45RA (HI100) Mouse mAb (PerCP-Cy5.5® Conjugate)



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: FC-FP, FC-L	Reactivity:	Sensitivity: Endogenous	Source/Isotype: Mouse IgG2b kappa	UniProt ID: #P08575	Entrez-Gene Id: 5788
Product Usage Information		Application Flow Cytometry (Fixed/Permeabilized)			Dilution 1:20
		Flow Cytometry (Live)			1:20
Storage		Supplied in 10 mM NaH $_2$ PO $_4$, 150 mM NaCl, 0.09% NaN $_3$, 0.1% gelatin, μ 6 months when stored at 4 $^\circ$ C. Do not aliquot the antibody. Protect from			
Specificity/Sensitivity		CD45RA (HI100) Mouse mAb (PerCP-Cy5.5 $^{\otimes}$ Conjugate) recognizes endogenous levels of total CD45RA protein. This antibody detects an epitope within the extracellular domain.			
Source / Purification		This monoclonal antibody was purified from tissue culture supernatant via affinity chromatography. The purified antibody was conjugated under optimal conditions, with unreacted dye removed from the preparation.			
Description		This Cell Signaling Technology antibody is conjugated to PerCP-Cy5.5 $^{\$}$ and tested in-house for direct flow cytometric analysis in human cells.			
Background		The protein phosphatase (PTP) receptor CD45 is a type I transmembra intracellular tyrosine phosphatase domains and a variable extracellula alternative splicing (1). The catalytic activity of CD45 is a function of the while the second phosphatase domain (D2) may interact with and stab recruit/bind substrates (2,3). CD45 interacts directly with antigen recept activates Src family kinases involved in the regulation of T- and B-cell a Specifically, CD45 dephosphorylates Src-family kinases Lck and Fyn at regulatory carboxy-terminal tyrosine residues and upregulates kinase indicate that CD45 can also inhibit Lck and Fyn by dephosphorylating the autophosphorylation site. CD45 appears to be both a positive and a nesignals depending on specific stimuli and cell type (1). Human leukocy eosinophils, monocytes, basophils, and neutrophils express CD45, whin negative for CD45 expression (4). Several isoforms of CD45 are generated through alternative splicing in activation state-specific manner. The HI100 antibody is widely used as activated T cells. Naïve T cells are positive for CD45RA, where activated (5).			er domain generated by e first phosphatase domain (D1) bilize the first domain, or ptor complex proteins or antigen receptor signaling (1). their conserved negative activity. Conversely, studies their positive regulatory egative regulator that conducts tes including lymphocytes, ile erythrocytes and platelets are n a cell type-specific and
		(5).	r cens are positive for CD45		

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Applications Key

FC-FP: Flow Cytometry (Fixed/Permeabilized) FC-L: Flow Cytometry (Live)

Cross-Reactivity Key

H: Human

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