CD45RA (HI100) Mouse mAb (PE Conjugate)



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Applications: FC-FP, FC-L	Reactivity: H	Sensitivity: Endogenous	Source/Isotype: Mouse IgG2b kappa	UniProt ID: #P08575	Entrez-Gene Id: 5788
Product Usage		Application			Dilution
Information		Flow Cytometry (Fixed/Permeabilized)			1:20
		Flow Cytometry (Live)			1:20
Storage		Supplied in 10 mM NaH2PO4, 150 mM NaCl, 0.09% NaN3, 0.1% gelatin, pH 7.2. This product is stable for 12 months when stored at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.			
Specificity/Sensitivity		CD45RA (HI100) Mouse mAb (PE 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 PE and tested in-house for direct flow cytometric analysis in human cells.			
Background		The protein phosphatase (PTP) receptor CD45 is a type I transmembrane printracellular tyrosine phosphatase domains and a variable extracellular donalternative splicing (1). The catalytic activity of CD45 is a function of the first while the second phosphatase domain (D2) may interact with and stabilize recruit/bind substrates (2,3). CD45 interacts directly with antigen receptor cativates Src family kinases involved in the regulation of T- and B-cell antige Specifically, CD45 dephosphorylates Src-family kinases Lck and Fyn at their regulatory carboxy-terminal tyrosine residues and upregulates kinase activindicate that CD45 can also inhibit Lck and Fyn by dephosphorylating their autophosphorylation site. CD45 appears to be both a positive and a negative signals depending on specific stimuli and cell type (1). Human leukocytes in eosinophils, monocytes, basophils, and neutrophils express CD45, while ery negative for CD45 expression (4). Several isoforms of CD45 are generated through alternative splicing in a ce activation state-specific manner. The HI100 antibody is widely used as a leu activated T cells. Naïve T cells are positive for CD45RA, where activated T ce (5).			ar domain generated by the first phosphatase domain (D1) bilize the first domain, or the property proteins or antigen receptor signaling (1). Their conserved negative their conserved negative their positive regulatory the regulator that conducts their positive regulatory the regulator that conducts their positive regulator that conducts their positive regulator that conducts their positive regulator that conducts the regulator that the regulator
Background References		1. Huntington, N.D. and Tarlinton, D.M. (2004) <i>Immunol Lett</i> 94, 167-74. 2. Felberg, J. and Johnson, P. (2000) <i>Biochem Biophys Res Commun</i> 271, 292-8. 3. Kashio, N. et al. (1998) <i>J Biol Chem</i> 273, 33856-63. 4. Wang, Y. and Johnson, P. (2005) <i>J Biol Chem</i> 280, 14318-24. 5. Cosenza-Nashat, M.A. et al. (2006) <i>Brain Pathol</i> 16, 256-65.			

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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