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742 Store at +4C CD45 (30-F11) Rat mAb (PE Conjugate)



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Applications: React FC-FP, FC-L N		Source/Isotype: Rat IgG2b kappa	UniProt ID: #P06800	Entrez-Gene Id: 19264		
Product Usage		For optimal flow cytometry results, we recommend 0.06µg of antibody per test.				
Information	Application Flow Cytometry (Fixed/P Flow Cytometry (Live)	Flow Cytometry (Fixed/Permeabilized)				
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		CD45 (30-F11) Rat mAb (PE Conjugate) recognizes endogenous levels of total mouse CD45 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 cytometry analysis in mouse cells.				
Background	intracellular tyrosine pho alternative splicing (1). T while the second phosph recruit/bind substrates (2 activates Src family kinas Specifically, CD45 depho regulatory carboxy-term indicate that CD45 can a autophosphorylation site signals depending on sp eosinophils, monocytes, negative for CD45 expres	The protein phosphatase (PTP) receptor CD45 is a type I transmembrane protein comprised of a pair of intracellular tyrosine phosphatase domains and a variable extracellular domain generated by alternative splicing (1). The catalytic activity of CD45 is a function of the first phosphatase domain (D1) while the second phosphatase domain (D2) may interact with and stabilize the first domain, or recruit/bind substrates (2,3). CD45 interacts directly with antigen receptor complex proteins or activates Src family kinases involved in the regulation of T- and B-cell antigen receptor signaling (1). Specifically, CD45 dephosphorylates Src-family kinases Lck and Fyn at their conserved negative regulatory carboxy-terminal tyrosine residues and upregulates kinase activity. Conversely, studies indicate that CD45 can also inhibit Lck and Fyn by dephosphorylating their positive regulatory autophosphorylation site. CD45 appears to be both a positive and a negative regulator that conducts signals depending on specific stimuli and cell type (1). Human leukocytes including lymphocytes, eosinophils, monocytes, basophils, and neutrophils express CD45, while erythrocytes and platelets are negative for CD45 expression (4). The 30-F11 antibody is widely used as a leukocyte marker for B cells, T cell subsets and NK cell subsets.				
Background References	2. Felberg, J. and Johnsor 3. Kashio, N. et al. (1998)	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.				
Species Reactivity	Species reactivity is dete	rmined by testing in at lea	ast one approved ap	plication (e.g., western blot).		
Applications Key	FC-FP: Flow Cytometry (F	FC-FP: Flow Cytometry (Fixed/Permeabilized) FC-L: Flow Cytometry (Live)				
Cross-Reactivity Key	M: Mouse	M: Mouse				
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