CD45 (Intracellular Domain) (D9M8I) XP[®] Rabbit mAb (Alexa Fluor[®] 700 Conjugate)



Orders: 877-616-CELL (2355)

orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Applications: FC-FP	Reactivity: H Mk	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P08575	Entrez-Gene Id: 5788
Product Usage Information		Application Flow Cytometry (Fixed/P	ermeabilized)		Dilution 1:50
Storage		Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BS/ antibody. Protect from light. Do not freeze.			SA. Store at 4°C. Do not aliquot the
Specificity/Sensitivity		CD45 (Intracellular Domain) (D9M8I) XP [®] Rabbit mAb (Alexa Fluor [®] 700 Conjugate) recognizes endogenous levels of total CD45 protein.			
Source / Purification		Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the carboxy terminus of human CD45 protein.			
Description		This Cell Signaling Technology antibody is conjugated to Alexa Fluor [®] 700 fluorescent dye and tested in-house for direct flow cytometric analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated CD45 (Intracellular Domain) (D9M8I) XP [®] Rabbit mAb #13917.			
Background		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).			
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.			
Species Reactivity	,	Species reactivity is dete	rmined by testing in at le	east one approved an	polication (e.g., western blot).

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)

Cross-Reactivity Key H: Human Mk: Monkey

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