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Phospho-CD79A (Tyr182) (D1B9) Rabbit mAb (PE Conjugate)

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

Applications: FC-FP	Reactivity: H	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P11912	Entrez-Gene Id: 973
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Product Usage Information	Application Flow Cytometry (Fixed/Permeabilized)	Dilution 1:50
Storage	Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibodies. Protect from light. Do not freeze.	
Specificity/Sensitivity	Phospho-CD79A (Tyr182) (D1B9) Rabbit mAb (PE Conjugate) recognizes endogenous levels of CD79A protein only when phosphorylated on Tyr188, which corresponds to Tyr182 of mouse CD79A protein.	
Species predicted to react based on 100% sequence homology	Mouse	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr188 of human CD79A protein. This sequence corresponds to Tyr182 of mouse CD79A protein.	
Description	This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometry analysis in human cells. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated Phospho-CD79A (Tyr182) (D1B9) Rabbit mAb #14732.	
Background	Antigen receptors found on the surface of B cells contain a heterodimeric signaling component composed of CD79A and CD79B, also known as Ig α and Ig β , respectively (1,2). Presence of this receptor complex is essential for B cell development and function (3). Together these two proteins and the associated B cell receptor (BCR) initiate intracellular signaling following antigen binding (4,5). An immunoreceptor tyrosine-based activation motif (ITAM) found in the CD79A intracellular region appears to be important for its function (6). Antigen binding precedes formation of the CD79A and CD79B heterodimer and subsequent activation of receptor associated kinases (7). Research has shown that CD79A is a marker for B-lineage lymphoblastic leukemia (8). Additionally, investigators have found that mutations in the <i>CD79A (MB1)</i> gene are associated with abnormally low levels of functional B cell receptors in some cases of chronic B cell lymphocytic leukemia (9).	
Background References	<ol style="list-style-type: none"> van Noesel, C.J. et al. (1991) <i>J Immunol</i> 146, 3881-8. Minegishi, Y. et al. (1999) <i>J Clin Invest</i> 104, 1115-21. Yu, L.M. and Chang, T.W. (1992) <i>J Immunol</i> 148, 633-7. Storch, B. et al. (2007) <i>Eur J Immunol</i> 37, 252-60. Mason, D.Y. et al. (1995) <i>Blood</i> 86, 1453-9. Luisiri, P. et al. (1996) <i>J Biol Chem</i> 271, 5158-63. Pike, K.A. et al. (2004) <i>J Immunol</i> 172, 2210-8. Astsaturov, I.A. et al. (1996) <i>Leukemia</i> 10, 769-73. Vuillier, F. et al. (2005) <i>Blood</i> 105, 2933-40. 	
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	
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