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FcγRIIB (D8F9C) XP[®] Rabbit mAb (Alexa Fluor[®] 488 Conjugate)



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

Applications: FC-FP	Reactivity: M	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P08101	Entrez-Gene Id: 14130		
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 antibody. Protect from light. Do not freeze.					
Specificity/Sensi	tivity	FcγRIIB (D8F9C) XP [®] Rabbit mAb (Alexa Fluor [®] 488 Conjugate) recognizes endogenous levels of total FcγRIIB protein.					
Source / Purifica	tion	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro284 of mouse FcγRIIB protein.					
Description		This Cell Signaling Technology antibody is conjugated to Alexa Fluor [®] 488 fluorescent dye and tested in-house for direct flow cytometric analysis in mouse cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated FcγRIIB (D8F9C) XP [®] Rabbit mAb #96397.					
Background		FcvRIIB (CD32B) is a low affinity, IgG Fc-binding receptor expressed on B cells, monocytes, macrophages, and dendritic cells (DCs) (1-3). It is the inhibitory Fc receptor and signals through an immunoreceptor tyrosine-based inhibitory motif (ITIM) within its carboxy-terminal cytoplasmic tail (2). Binding of immune complexes to FcvRIIB results in tyrosine phosphorylation of the ITIM motif at Tyr292 and recruitment of the phosphatase SHIP, which mediates inhibitory effects on immune cell activation (2,4). In this way, FcvRIIB suppresses the effects of activating Fc-binding receptors (3). For example, mice deficient for FcvRIIB have greater T cell and DC responses following injection of immune complexes (5,6). In addition, FcvRIIB plays a role in B cell affinity maturation (7). Signaling through FcvRIIB in the absence of signaling through the B cell receptor (BCR) is proapoptotic, while signaling through FcvRIIB and the BCR simultaneously attenuates the apoptotic signal and results in selection of B cells with higher antigen affinity (7).					
Background Refe	erences	1. Tridandapani, S. et al. (2002) <i>J. Biol. Chem.</i> 277, 5082-89. 2. Tridandapani, S. et al. (1997) <i>Mol. Cell. Biol.</i> 17, 4305-11. 3. Guilliams, M. et al. (2014) <i>Nat Rev Immunol</i> 14, 94-108. 4. Bruhns, P. et al. (2000) <i>J. Biol. Chem.</i> 275, 37357-64. 5. Kalergis, A.M. and Ravetch, J.V. (2002) <i>J Exp Med</i> 195, 1653-9. 6. Desai, D.D. et al. (2007) <i>J Immunol</i> 178, 6217-26. 7. Pearse, R.N. et al. (1999) <i>Immunity</i> 10, 753-60.					
Species Reactivit	ty	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	M: Mouse					
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