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SLP-76 (D1R1A) Rabbit mAb (PE Conjugate)



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Applications: FC-FP	Reactivity: H	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #Q13094	Entrez-Gene Id: 3937		
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 BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.					
Specificity/Sensi	itivity	SLP-76 (D1R1A) Rabbit mAb (PE Conjugate) recognizes endogenous levels of total SLP-76 protein.					
Source / Purifica	tion	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro390 of human SLP-76 protein.					
Description		This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometry analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated SLP-76 (D1R1A) Rabbit mAb #70896.					
Background		SH2 domain-containing leukocyte protein of 76 kDa (SLP-76) is a hematopoietic adaptor protein that is important in multiple biochemical signaling pathways and necessary for T cell development and activation (1). ZAP-70 phosphorylates SLP-76 and LAT as a result of TCR ligation. SLP-76 has aminoterminal tyrosine residues followed by a proline-rich domain and a carboxy-terminal SH2 domain. Phosphorylation of Tyr113 and Tyr128 result in recruitment of the GEF Vav and the adaptor protein Nck (2). TCR ligation also leads to phosphorylation of Tyr145, which mediates an association between SLP-76 and Itk, which is accomplished in part via the proline-rich domain of SLP-76 and the SH3 domain of Itk (3). Furthermore, the proline-rich domain of SLP-76 binds to the SH3 domains of Grb2-like adaptor Gads (3,4). In resting cells, SLP-76 is predominantly in the cytosol. Upon TCR ligation, SLP-76 translocates to the plasma membrane and promotes the assembly of a multi-protein signaling complex that includes Vav, Nck, Itk, and PLCv1 (1). The expression of SLP-76 is tightly regulated; the protein is detected at very early stages of thymocyte development, increases as thymocyte maturation progresses, and is reduced as cells mature to CD4 ⁺ CD8 ⁺ double-positive thymocytes (5).					
Background References 1. Clements, J.L. (2003) Immunol Rev 191, 211-9. 2. Bubeck Wardenburg, J. et al. (1998) Immunity 9, 607-16. 3. Bunnell, S.C. et al. (2000) J Biol Chem 275, 2219-30. 4. Liu, S.K. et al. (1999) Curr Biol 9, 67-75. 5. Clements, J.L. et al. (1998) J Immunol 161, 3880-9.							
Species Reactivi	ty	Species reactivity is dete	rmined by testing in at le	ast one approved app	lication (e.g., western blot).		
Applications Key	/	FC-FP: Flow Cytometry (Fixed/Permeabilized)					
Cross-Reactivity	Кеу	H: Human					
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