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Phospho-SLP-76 (Ser376) (D7S1K) Rabbit mAb (Pacific Blue[™] 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/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	Phopho-SLP-76 (Ser376) (D7S1K) XP [®] Rabbit mAb (Pacific Blue™ Conjugate) recognizes endogenous levels of SLP-76 protein only when phosphorylated at Ser376. Clone E3G9U is more sensitive by flow cytometry than clone D7S1K.					
Source / Purifica	tion	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser376 of human SLP-76 protein.					
Description		This Cell Signaling Technology antibody is conjugated to Pacific Blue™ fluorescent dye 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 Phopho-SLP-76 (Ser376) (D7S1K) XP [®] Rabbit mAb #92711.					
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 Ref	erences	1. Clements, J.L. (2003) <i>Immunol Rev</i> 191, 211-9. 2. Bubeck Wardenburg, J. et al. (1998) <i>Immunity</i> 9, 607-16. 3. Bunnell, S.C. et al. (2000) <i>J Biol Chem</i> 275, 2219-30. 4. Liu, S.K. et al. (1999) <i>Curr Biol</i> 9, 67-75. 5. Clements, J.L. et al. (1998) <i>J Immunol</i> 161, 3880-9.					
Species Reactivi	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	Кеу	H: Human					
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