

SLP-76 (D1R1A) Rabbit mAb



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Applications: W, W-S, IP, IHC-P, IF-IC, FC-FP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 76	Source/Isotype: Rabbit IgG	UniProt ID: #Q13094	Entrez-Gene Id 3937
Product Usage		Application		Dilution		
Information		Western Blotting				1:1000
		Simple Western™				1:10 - 1:50
		Immunoprecipitation	1			1:200
		Immunohistochemis	try (Paraffin)			1:200
		Immunofluorescence	e (Immunocytochem	istry)		1:200
		Flow Cytometry (Fixe	d/Permeabilized)			1:50
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
		For a carrier free (BSA and azide free) version of this product see product #52812.				
Specificity/Sensitivity		SLP-76 (D1R1A) Rabbit mAb recognizes endogenous levels of total SLP-76 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro390 of human SLP-76 protein.				
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 PLCγ1 (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		 Clements, J.L. (2003) Immunol Rev 191, 211-9. Bubeck Wardenburg, J. et al. (1998) Immunity 9, 607-16. Bunnell, S.C. et al. (2000) J Biol Chem 275, 2219-30. Liu, S.K. et al. (1999) Curr Biol 9, 67-75. Clements, J.L. et al. (1998) J Immunol 161, 3880-9. 				
Species Reactiv	vity	Species reactivity is d	etermined by testin	g in at least one approve	ed application (e.c	յ., western blot).
Mastaus Blat B						

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4° C with gentle shaking, overnight.

Applications Key

W: Western Blotting **W-S:** Simple Western™ **IP:** Immunoprecipitation **IHC-P:** Immunohistochemistry (Paraffin) **IF-IC:** Immunofluorescence (Immunocytochemistry) **FC-FP:** Flow Cytometry

(Fixed/Permeabilized)

Cross-Reactivity Key

H: Human

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