# 70896 Store at -20C

# SLP-76 (D1R1A) Rabbit mAb



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Applications: R WB, W-S, IP, IHC-P, IF- IC, FC-FP	eactivity: H	Sensitivity: Endogenous	<b>MW (kDa):</b> 76	Source/Isotype: Rabbit IgG	UniProt ID: #Q13094	Entrez-Gene Id 3937	
Product Usage Information	Ар	Application			Dilution		
	We	stern Blotting				1:1000	
	Sin	nple Western™				1:10 - 1:50	
	lmi	nunoprecipitation				1:200	
	lmı	nunohistochemistry	(Paraffin)			1:200	
	lmı	nunofluorescence (	Immunocytochen	nistry)		1:200	
	Flo	w Cytometry (Fixed	/Permeabilized)			1:50	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/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) v	ersion of this product se	e product #52812.		
Specificity / Sensitivi	ty SLF	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	imp (1). tyro of T also acco prol SLF and The deve	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 amino-terminal 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 PLCy1 (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 Reference	2. B 3. B 4. Li	<ol> <li>Clements, J.L. (2003) Immunol Rev 191, 211-9.</li> <li>Bubeck Wardenburg, J. et al. (1998) Immunity 9, 607-16.</li> <li>Bunnell, S.C. et al. (2000) J Biol Chem 275, 2219-30.</li> <li>Liu, S.K. et al. (1999) Curr Biol 9, 67-75.</li> <li>Clements, J.L. et al. (1998) J Immunol 161, 3880-9.</li> </ol>					

### **Species Reactivity**

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

### 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**

WB: 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**

SLP-76 (D1R1A) Rabbit mAb (#70896) Datasheet Without Images Cell Signaling Technology

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D, melanogaster X: Xenopus Z: zebrafish B: bovine Dq: dog Pq: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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