

SLP-76 (D1R1A) Rabbit mAb (Biotinylated)



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Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 76	Source/Isotype: Rabbit IgG	UniProt ID: #Q13094	Entrez-Gene Id: 3937
Product Usage Information		Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 136 mM NaCl, 2.6 mM KCI, 12 mM sodium phosphate (pH 7.4) dibasic, 2 mg/ml BSA, and 50% glycerol. Store at -20° C. Do not aliquot the antibody.				
Specificity/Sensitivity		SLP-76 (D1R1A) Rabbit mAb (Biotinylated) 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.				
Description		This Cell Signaling Technology antibody is conjugated to biotin under optimal conditions. The biotinylated 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) <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 Reactiv	rity	Species reactivity is d	etermined by testin	g in at least one approve	ed 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 W: Western Blotting

Cross-Reactivity Key H: Human

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