Carriagilage

4 Store at -200

SLP-76 (D1R1A) Rabbit mAb (Biotinylated)



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Applications: WB	Reactivity:	Sensitivity: Endogenous	MW (kDa): 76	Rabbit IgG	#Q13094	Entrez-Gene Id: 3937	
Product Usage Information	Ар	plication		Dilution			
	We	stern Blotting			1:1000		
Storage		Supplied in 136 mM NaCl, 2.6 mM KCl, 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 / Sensitiv	vity SLP	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.					
Product Description	antil	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.					
ИW (kDa)		76					

MANA (LDs).

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 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 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 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

Cross-Reactivity Key

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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SLP-76 (D1R1A) Rabbit mAb (Biotinylated) (#80554) Datasheet Without Images Cell Signaling Technology

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