Revision 1						
Phospho-SLP-76 (Ser376) (D9D6E) Rabbit mAb					Cell Signaling	
Stor					Orders:	877-616-CELL (2355) orders@cellsignal.com
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For Research Use Onl	v. Not for Use in	Diagnostic Proc	edures.	3 Trask L	ane Danvers Ma	ssachusetts 01923 USA
Applications: WB	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 76	Source/Isotype: Rabbit IgG	UniProt ID: #Q13094	Entrez-Gene Id: 3937
Product Usage	Ар	Application			Dilution	
Information	We	stern Blotting			1:1000	
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.				
Specificity / Sens		Phospho-SLP-76 (Ser376) (D9D6E) Rabbit mAb recognizes endogenous levels of SLP-76 protein only when phosphorylated at Ser376.				
Source / Purificat		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser376 of human SLP-76 protein.				
Background	imp (1). tyro: of T also acco prol SLP and The deve	ortant in multiple bio ZAP-70 phosphoryl sine residues follow yr113 and Tyr128 re- leads to phosphory omplished in part via ine-rich domain of S -76 is predominant promotes the asset expression of SLP-	bechemical signalin ates SLP-76 and red by a proline-ri- esult in recruitmen (lation of Tyr145, a the proline-rich SLP-76 binds to the ly in the cytosol. I mbly of a multi-pr -76 is tightly regunds as thymocyte m	n of 76 kDa (SLP-76) is ng pathways and necess LAT as a result of TCR ch domain and a carbox nt of the GEF Vav and th which mediates an asso domain of SLP-76 and t ne SH3 domains of Grb2 Jpon TCR ligation, SLP- otein signaling complex lated; the protein is dete aturation progresses, ar	sary for T cell develo ligation. SLP-76 ha cy-terminal SH2 dom ne adaptor protein N pociation between SL he SH3 domain of I 2-like adaptor Gads -76 translocates to t that includes Vav, N cted at very early st	opment and activation s amino-terminal nain. Phosphorylation Ick (2). TCR ligation .P-76 and Itk, which is tk (3). Furthermore, the (3,4). In resting cells, he plasma membrane Jck, Itk, and PLCy1 (1). tages of thymocyte
	(HP	Following TCR ligation, SLP-76 is phosphorylated at Ser376 by the hematopoietic progenitor kinase 1 (HPK1) (6,7). This phosphorylation induces interaction with 14-3-3ɛ, which leads to the disassembly of TCR signaling complexes and down regulation of TCR signaling (6-8).				
Background References		 Clements, J.L. (2003) <i>Immunol Rev</i> 191, 211-9. Bubeck Wardenburg, J. et al. (1998) <i>Immunity</i> 9, 607-16. Bunnell, S.C. et al. (2000) <i>J Biol Chem</i> 275, 2219-30. Liu, S.K. et al. (1999) <i>Curr Biol</i> 9, 67-75. Clements, J.L. et al. (1998) <i>J Immunol</i> 161, 3880-9. Shui, J.W. et al. (2007) <i>Nat Immunol</i> 8, 84-91. Di Bartolo, V. et al. (2007) <i>J Exp Med</i> 204, 681-91. Lasserre, R. et al. (2011) <i>J Cell Biol</i> 195, 839-53. 				

- 8. Lasserre, R. et al. (2011) J Cell Biol 195, 839-53.
- **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 H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster **Cross-Reactivity Key** X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected

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