49183

Phospho-BLNK (Thr152) Antibody



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Applications: W	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 68, 70	Source/Isotype: Rabbit	UniProt ID: #Q8WV28	Entrez-Gene Id: 29760		
Product Usage Information		Application Western Blotting	Dilution 1:1000					
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store a 20°C. Do not aliquot the antibody.				ycerol. Store at –		
Specificity/Sensitivity		Phospho-BLNK (Thr152) Antibody recognizes endogenous levels of BLNK protein only when phosphorylated at Thr152.						
Source / Purification Polyclonal antibodies are produced by immunizing animals corresponding to residues surrounding Thr152 of human B protein A and peptide affinity chromatography.				hr152 of human BLNK p				
Background Background Re	eferences	 B cell linker protein (BLNK), also known as SLP-65 or BASH, is an adaptor molecule that plays key roles in B cell activation and B cell antigen receptor (BCR) engagement. BLNK acts at the interface between BCR-associated Syk and downstream signaling cascades (1,2). BLNK has multiple SH2 binding motifs (YXXP) at its amino terminus and an SH2 domain at its carboxy terminus. After BCR ligation, BLNK is phosphorylated by Syk at multiple YXXP motifs, including Tyr72, Tyr84, Tyr96, and Tyr178 (1). These phosphorylated motifs provide docking sites for signaling molecules, such as BTK, PLCγ, and Vav. These signaling molecules bind to BLNK through their SH2 domains and together activate downstream signaling pathways (3,4). Through its SH2 domain, BLNK can also interact with tyrosine-phosphorylated targets, such as HPK1, thereby recruiting them to the BCR complex for signaling (5). Following BCR ligation, BLNK is phosphorylated at Thr152 by the hematopoietic progenitor kinase 1 (HPK1) (6). This phosphorylation induces interaction with 14-3-3ε, which leads to the disassembly of BCR signaling complexes and downregulation of BCR signaling (6). 1. Kurosaki, T. and Tsukada, S. (2000) <i>Immunity</i> 12, 1-5. 2. Fu, C. et al. (1998) <i>Immunity</i> 9, 93-103. 3. Ishiai, M. et al. (2001) <i>Proc. Natl. Acad. Sci. USA</i> 98, 2582-86. 5. Tsuji, S. et al. (2001) <i>J. Exp. Med.</i> 194, 529-39. 6. Wang, X. et al. (2012) <i>J Biol Chem</i> 287, 11037-48. 						
Species Reactiv	vity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot B	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 K	ey	W: Western Blotting						
Cross-Reactivit	ty Key	H: Human M: Mouse						
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