

Store at
-20C
#65060

Phospho-BLNK (Tyr84) Antibody



Orders: 877-616-CELL (2355)
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Web: info@cellsignal.com
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3 Trask Lane | Danvers | Massachusetts | 01923 | USA

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 68,70	Source/Isotype: Rabbit	UniProt ID: #Q8WV28	Entrez-Gene Id: 29760
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Product Usage Information	Application Western Blotting Immunoprecipitation	Dilution 1:1000 1:50
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.	
Specificity/Sensitivity	Phospho-BLNK (Tyr84) Antibody recognizes endogenous levels of BLNK protein only when phosphorylated at Tyr84. This antibody cross-reacts with phospho-Her2.	
Species predicted to react based on 100% sequence homology	Mouse, Rat	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr84 of human BLNK protein. Antibodies are purified by protein A and peptide affinity chromatography.	
Background	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).	
Background References	<ol style="list-style-type: none"> 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. (1999) <i>Immunity</i> 10, 117-25. 4. Baba, Y. 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. 	
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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.	
Applications Key	W: Western Blotting IP: Immunoprecipitation	
Cross-Reactivity Key	H: Human	
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