

Store at -20C
#29082**BLNK (D3P2H) XP[®] Rabbit mAb (BSA and Azide Free)**

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IHC-P, IF-IC, FC-FP	H M	Endogenous	68, 70	Rabbit IgG	#Q8WV28	29760
Product Usage Information	This product is the carrier free version of product #36438. All data were generated using the same antibody clone in the standard formulation which contains BSA and glycerol. This formulation is ideal for use with technologies requiring specialized or custom antibody labeling, including fluorophores, metals, lanthanides, and oligonucleotides. It is not recommended for ChIP, ChIP-seq, CUT&RUN or CUT&Tag assays. If you require a carrier free formulation for chromatin profiling, please contact us. Optimal dilutions/concentrations should be determined by the end user. BSA and Azide Free antibodies are quality control tested by size exclusion chromatography (SEC) to determine antibody integrity.					
Formulation	Supplied in 1X PBS (10 mM Na₂HPO₄, 3 mM KCl, 2 mM KH₂PO₄, and 140 mM NaCl (pH 7.8)). BSA and Azide Free. For standard formulation of this product see product #36438					
Storage	Store at -20°C. <i>This product will freeze at -20°C so it is recommended to aliquot into single-use vials to avoid multiple freeze/thaw cycles.</i> A slight precipitate may be present and can be dissolved by gently vortexing. This will not interfere with antibody performance.					
Specificity/Sensitivity	BLNK (D8P2H) XP[®] Rabbit mAb (BSA and Azide Free) recognizes endogenous levels of total BLNK protein.					
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Arg282 of human BLNK protein.					
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	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).
Applications Key	W: Western Blotting IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)
Cross-Reactivity Key	H: Human M: Mouse
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