

#12168 Store at -20C

BLNK (D8R3G) Rabbit mAb



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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:
WB	H M	Endogenous	68, 70	Rabbit IgG	#Q8WV28	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, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity / Sensitivity

BLNK (D8R3G) Rabbit mAb recognizes endogenous levels of total BLNK protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus 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) *Immunity* 12, 1-5.
2. Fu, C. et al. (1998) *Immunity* 9, 93-103.
3. Ishiai, M. et al. (1999) *Immunity* 10, 117-25.
4. Baba, Y. et al. (2001) *Proc. Natl. Acad. Sci. USA* 98, 2582-86.
5. Tsuji, S. et al. (2001) *J. Exp. Med.* 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

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 **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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