

BLNK (D3P2H) XP[®] Rabbit mAb

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

Applications: W, IP, IHC-P, IF-IC, FC-FP	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 68, 70	Source/Isotype: Rabbit IgG	UniProt ID: #Q8WV28	Entrez-Gene Id: 29760
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Product Usage Information**Application**

Western Blotting
Immunoprecipitation
Immunohistochemistry (Paraffin)
Immunofluorescence (Immunocytochemistry)
Flow Cytometry (Fixed/Permeabilized)

Dilution

1:1000
1:50
1:250
1:800 - 1:1600
1:50

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.

For a carrier free (BSA and azide free) version of this product see product #29082.

Specificity/Sensitivity

BLNK (D3P2H) XP[®] 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 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) *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

W: Western Blotting **IP:** Immunoprecipitation **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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