BLNK (D8R3G) Rabbit mAb

100 μl (10 western blots)

#12168 Store at -20°

New 11/12

For Research Use Only. Not For Use In Diagnostic Procedures.

Applications W Endogenous	Species Cross-Reactivity* H, M	Molecular Wt. 68, 70 kDa	lsotype Rabbit lgG**	
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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 BCRassociated 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, PLCy, 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).

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 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, 117-125.
- (4) Baba, Y. et al. (2001) *Proc. Natl. Acad. Sci. USA* 98, 2582-2586.
- (5) Tsuji, S. et al. (2001) J. Exp. Med. 194, 529-539.



Western blot analysis of extracts from various cell lines using BLNK (D8R3G) Rabbit mAb. B cell specificity of this antibody is demonstrated by the absence of signal in Jurkat cells.



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Entrez-Gene ID #29760 Swiss-Prot Acc. #Q8WV28

Storage: Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. *Do not aliquot the antibody.*

*Species cross-reactivity is determined by western blot.

**Anti-rabbit secondary antibodies must be used to detect this antibody.

Recommended Antibody Dilutions:

Western blotting

1:1000

For product specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended complementary products.

IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.