

Goat Anti-BLNK / SLP-65 Antibody
Peptide-affinity purified goat antibody
Catalog # AF1158a

Specification

Goat Anti-BLNK / SLP-65 Antibody - Product Information

Application	WB
Primary Accession	Q8WV28
Other Accession	NP_001107566 , 29760 , 17060 (mouse)
Reactivity	Human
Predicted	Mouse, Rat, Pig, Dog
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	50466

Goat Anti-BLNK / SLP-65 Antibody - Additional Information

Gene ID 29760

Other Names

B-cell linker protein, B-cell adapter containing a SH2 domain protein, B-cell adapter containing a Src homology 2 domain protein, Cytoplasmic adapter protein, Src homology 2 domain-containing leukocyte protein of 65 kDa, SLP-65, BLNK, BASH, SLP65

Format

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Goat Anti-BLNK / SLP-65 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-BLNK / SLP-65 Antibody - Protein Information

Name BLNK

Synonyms BASH, SLP65

Function

Functions as a central linker protein, downstream of the B- cell receptor (BCR), bridging the SYK kinase to a multitude of signaling pathways and regulating biological outcomes of B-cell function

and development. Plays a role in the activation of ERK/EPHB2, MAP kinase p38 and JNK. Modulates AP1 activation. Important for the activation of NF-kappa-B and NFAT. Plays an important role in BCR- mediated PLCG1 and PLCG2 activation and Ca(2+) mobilization and is required for trafficking of the BCR to late endosomes. However, does not seem to be required for pre-BCR-mediated activation of MAP kinase and phosphatidyl-inositol 3 (PI3) kinase signaling. May be required for the RAC1-JNK pathway. Plays a critical role in orchestrating the pro-B cell to pre-B cell transition. May play an important role in BCR- induced B-cell apoptosis.

Cellular Location

Cytoplasm. Cell membrane. Note=BCR activation results in the translocation to membrane fraction

Tissue Location

Expressed in B-cell lineage and fibroblast cell lines (at protein level). Highest levels of expression in the spleen, with lower levels in the liver, kidney, pancreas, small intestines and colon

Goat Anti-BLNK / SLP-65 Antibody - Protocols

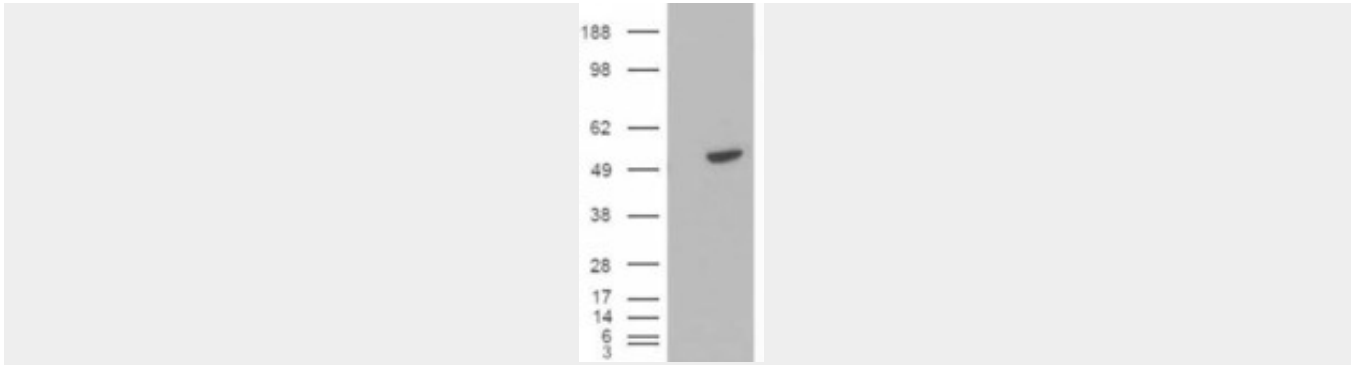
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Goat Anti-BLNK / SLP-65 Antibody - Images



AF1158a staining (4 µg/ml) of Daudi lysate (RIPA buffer, 30 µg total protein per lane). Primary incubated for 1 hour. Detected by western blot using chemiluminescence.



HEK293 overexpressing BLNK (RC202488) and probed with AF1158a (mock transfection in first lane), tested by Origene.

Goat Anti-BLNK / SLP-65 Antibody - Background

This gene encodes a cytoplasmic linker or adaptor protein that plays a critical role in B cell development. This protein bridges B cell receptor-associated kinase activation with downstream signaling pathways, thereby affecting various biological functions. The phosphorylation of five tyrosine residues is necessary for this protein to nucleate distinct signaling effectors following B cell receptor activation. Mutations in this gene cause hypoglobulinemia and absent B cells, a disease in which the pro- to pre-B-cell transition is developmentally blocked. Deficiency in this protein has also been shown in some cases of pre-B acute lymphoblastic leukemia. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

Goat Anti-BLNK / SLP-65 Antibody - References

Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype score. Rose JE, et al. *Mol Med*, 2010 Jul-Aug. PMID 20379614.

New genetic associations detected in a host response study to hepatitis B vaccine. Davila S, et al. *Genes Immun*, 2010 Apr. PMID 20237496.

Local network topology in human protein interaction data predicts functional association. Li H, et al. *PLoS One*, 2009 Jul 29. PMID 19641626.

SLP-65 phosphorylation dynamics reveals a functional basis for signal integration by receptor-proximal adaptor proteins. Oellerich T, et al. *Mol Cell Proteomics*, 2009 Jul. PMID 19372136.

BLNK binds active H-Ras to promote B cell receptor-mediated capping and ERK activation. Imamura Y, et al. *J Biol Chem*, 2009 Apr 10. PMID 19218240.