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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

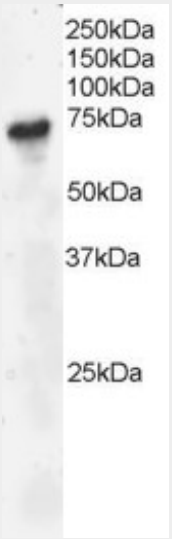
Tissue Location
Expressed in B-cell lineage and fibroblast cell lines (at protein level). Highest levels of expression in the spleen, with lower levels in the liver, kidney, pancreas, small intestines and colon

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 Cytomety
- 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.

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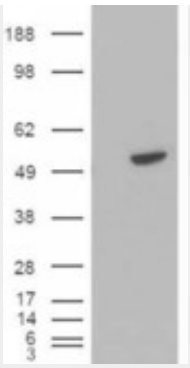

HEK293 overexpressing BLNK (RC202488) and probed with AF1158a (mock transfection in first lane), tested by Origene.

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.