

Rabbit anti-Human, Mouse BLNK Polyclonal Antibody | anti-BLNK antibody

BLNK Antibody

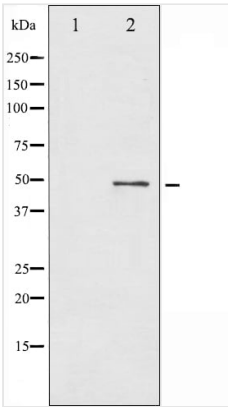
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA322440	Rabbit	Human, Mouse	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

BLNK; Polyclonal Antibody; BLNK Antibody; AGM4; B cell adapter containing SH2 domain protein; B cell adapter containing Src homology 2 domain protein; B cell adaptor containing SH2 domain; B cell linker; B cell linker protein; B cell-specific adaptor protein; B-cell activation; B-cell adapter containing a SH2 domain protein; B-cell adapter containing a Src homology 2 domain protein; B-cell linker protein; BASH; Bca; BLNK s; BLNK_HUMAN; Cytoplasmic adapter protein; Ly 57; Ly57; Lymphocyte antigen 57; Lyw 57; Lyw57; MGC111051; SH2 domain-containing leukocyte protein; 65-KD; SLP 65; SLP-65; SLP65; Src homology [SH2] domain-containing leukocyte protein of 65 kD; Src homology 2 domain containing leukocyte protein of 65 kDa; Src homology 2 domain-containing leukocyte protein of 65 kDa; anti-BLNK antibody

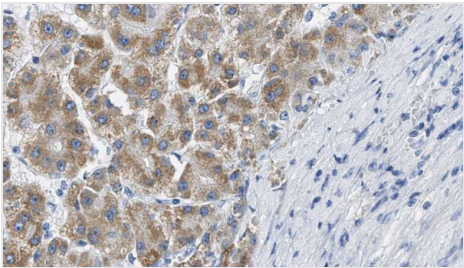
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	BLNK antibody detects endogenous levels of total BLNK
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	433
Applicable Applications for anti-BLNK antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human BLNK
Subcellular Location	Cytoplasm. Cell Membrane. BCR activation results in the translocation to membrane fraction.
Tissue Specificity	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.
Predicted Cross Reactivity	Pig, Zebrafish, Bovine, Sheep, Rabbit, Chicken, Xenopus
Similarity	Pig (88%), Zebrafish (100%), Bovine (88%), Sheep (88%), Rabbit (89%), Chicken (89%), Xenopus (86%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



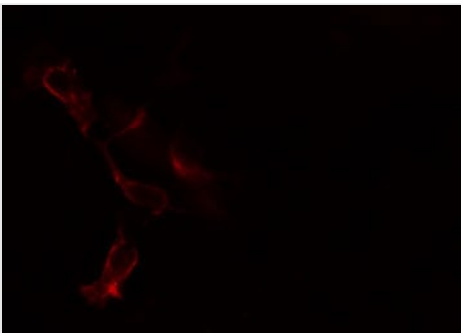
WB (Western Blot)

Western blot analysis of BLNK expression in etoposide treated 293 whole cell lysates, The lane on the left is treated with the antigen-specific peptide.



IHC (Immunohistochemistry)

AAA322440 at 1/100 staining Human liver cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



IF (Immunofluorescence)

AAA322440 staining COLO205 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-BLNK antibody

Description: BLNK an adaptor protein that bridges the B-cell receptor-associated kinases (BCR) with a multitude of signaling pathways, regulating biologic outcomes of B-cell function and development. Plays an important role in BCR-mediated PLCG1 activation and Ca(2) mobilization.

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 Ca2+ 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.

Subunit Structure: Associates with PLCG1, VAV1 and NCK1 in a B-cell antigen receptor-dependent fashion. Interacts with VAV3, PLCG2 and GRB2. Interacts through its SH2 domain with CD79A. Interacts (via SH2 domain) with SYK; phosphorylated and activated by SYK. Interacts with SCIMP.

Post-translational Modifications: Following BCR activation, phosphorylated on tyrosine residues by SYK and LYN. When phosphorylated, serves as a scaffold to assemble downstream targets of antigen activation, including PLCG1, VAV1, GRB2 and NCK1. Phosphorylation of Tyr-84, Tyr-178 and Tyr-189 facilitates PLCG1 binding. Phosphorylation of Tyr-96 facilitates BTK binding. Phosphorylation of Tyr-72 facilitates VAV1 and NCK1 binding. Phosphorylation is required for both Ca2+ and MAPK signaling pathways.

NCBI AND UNIPROT INFORMATION

NCBI GI #	166235901
NCBI GeneID	29760

NCBI Accession #	NP_001107566.1
NCBI GenBank Nucleotide #	NM_001114094.1
UniProt Accession #	Q8WV28 ; O75498 ; O75499 ; Q2MD49
Molecular Weight	Observed: 50 kDa Predicted: 51 kDa
NCBI Official Full Name	B-cell linker protein isoform 2
NCBI Official Synonym Full Names	B cell linker
NCBI Official Symbol	BLNK
NCBI Official Synonym Symbols	bca; AGM4; BASH; LY57; SLP65; BLNK-S; SLP-65
NCBI Protein Information	B-cell linker protein
UniProt Protein Name	B-cell linker protein
UniProt Gene Name	BLNK
UniProt Synonym Gene Names	BASH; SLP65; SLP-65

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/blnk-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/322440>