

## Rabbit BLNK Polyclonal Antibody | anti-BLNK antibody

Phospho-BLNK (Tyr84) Antibody

| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                |
|-----------|--------|-------------------|-----------------------------|
| AAA329238 | Rabbit | Human, Mouse, Rat | ELISA, Immunohistochemistry |

### PRODUCT SYNONYMS

BLNK; Polyclonal Antibody; Phospho-BLNK (Tyr84) 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 65KD; Src homology 2 domain containing leukocyte protein of 65kDa; Src homology 2 domain-containing leukocyte protein of 65kDa; anti-BLNK antibody

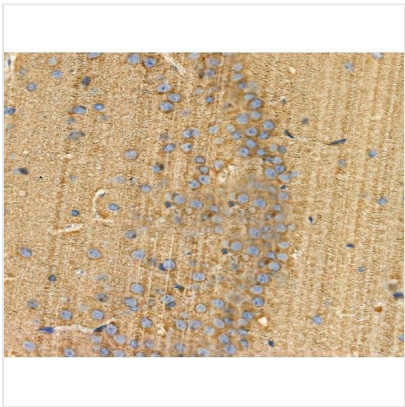
### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Reactivity                                     | Human, Mouse, Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Clonality                                      | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Isotype                                        | Rabbit IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Specificity                                    | Phospho-BLNK (Tyr84) Antibody detects endogenous levels of BLNK only when phosphorylated at Tyr84.<br>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.                                                                                                                                                           |
| Purity/Purification                            | The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.                                                                                                                                                                                                                                                                                                                          |
| Form/Format                                    | Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.                                                                                                                                                                                                                                                                                                                                                                                |
| Concentration                                  | 1mg/ml (varies by lot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Applicable Applications for anti-BLNK antibody | ELISA (Peptide ELISA), IHC (Immunohistochemistry)                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Immunogen                                      | A synthesized peptide derived from human BLNK around the phosphorylation site of Tyr84.                                                                                                                                                                                                                                                                                                                                                                                                 |
| Conjugation                                    | Unconjugated                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Fragment                                       | Fab fragment                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 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 Ca (2+) and MAPK signaling pathways. |
| 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 (via SH2 domain) with SCIMP; this interaction is dependent on phosphorylation of SCIMP 'Tyr-131'.                                                                                                                            |
| Subcellular Location                           | Cytoplasm. Cell membrane.<br>Note: BCR activation results in the translocation to membrane fraction.                                                                                                                                                                                                                                                                                                                                                                                    |
| Preparation and Storage                        | Store at -20 degree C. Stable for 12 months from date of receipt.                                                                                                                                                                                                                                                                                                                                                                                                                       |

IMAGES



**IHC (Immunohistochemistry)**  
Staining Human colorectal cancer 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 primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



**IHC (Immunohistochemistry)**  
At 1/100 staining Rat brain 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 primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.

ADDITIONAL INFORMATION

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for anti-BLNK antibody</b> | 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 phosphatidylinositol 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. |
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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                 | 50,466 Da                                                                                                                                                                                                                                                       |
| 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; B-cell activation; B cell linker protein; cytoplasmic adapter protein; B cell adaptor containing SH2 domain; B-cell adapter containing a SH2 domain protein; B-cell adapter containing a Src homology 2 domain protein; Src homology 2 d |
| UniProt Protein Name             | B-cell linker protein                                                                                                                                                                                                                                           |
| UniProt Gene Name                | BLNK                                                                                                                                                                                                                                                            |
| UniProt Synonym Gene Names       | BASH; SLP65; SLP-65                                                                                                                                                                                                                                             |
| UniProt Entry Name               | BLNK_HUMAN                                                                                                                                                                                                                                                      |

**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](mailto:contact@aaabiotech.com)

Online datasheet: <https://www.aaabiotech.com/polyclonal/blnk-antibody-peptide-elisa-immunohistochemistry-elisa/329238>