

BLNK Mouse mAb

CatalogNo: YM0068

Key Features

Host Species

- Mouse

Reactivity

- Human, Mouse

Applications

- WB, IHC, IF, FC, ELISA

MW

- 50kD (Calculated)

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-1:2000

IHC 1:200-1:1000

IF 1:200-1:1000

Flow Cyt 1:200-1:400

ELISA 1:10000

Not yet tested in other applications.

Basic Information

Clonality Monoclonal

Clone Number 13C1

Immunogen Information

Immunogen Purified recombinant fragment of human BLNK expressed in E. Coli.

Specificity BLNK Monoclonal Antibody detects endogenous levels of BLNK protein.

| Target Information

Gene name BLNK

Protein Name B-cell linker protein

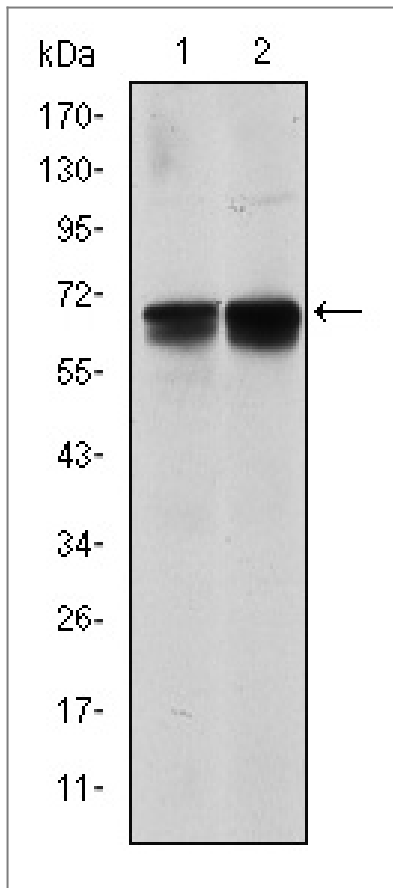
Organism	Gene ID	UniProt ID
Human	29760 ;	Q8WV28 ;
Mouse	17060 ;	Q9QUN3 ;

Cellular Localization Cytoplasm . Cell membrane . BCR activation results in the translocation to membrane fraction.

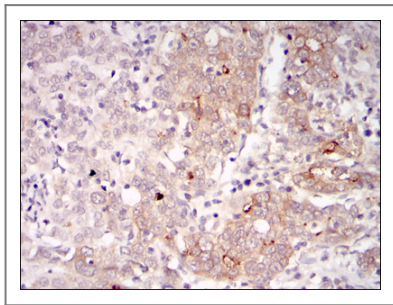
Tissue specificity Expressed in B-cell lineage and fibroblast cell lines (at protein level). Highest levels of expression in the spleen, with lower levels in the liver, kidney, pancreas, small intestines and colon.

Function Disease:Defects in BLNK are the cause of hypoglobulinemia and absent B-cells [MIM:604515]. This is a developmental blockage at the pro- to pre-B-cell transition.,Disease:In 6 of 34 childhood pre-B acute lymphoblastic leukemia (ALL) samples that were tested showed a complete loss or drastic reduction of BLNK expression.,Function:Functions as a central linker protein that bridges kinases associated with the B-cell receptor (BCR) with a multitude of signaling pathways, 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 (By similarity). Plays an important role in BCR-induced B-cell apoptosis.,online information:BLNK mutation db,PTM: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.,similarity:Contains 1 SH2 domain.,subcellular location:BCR activation results in the translocation to membrane fraction.,subunit: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.,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.,

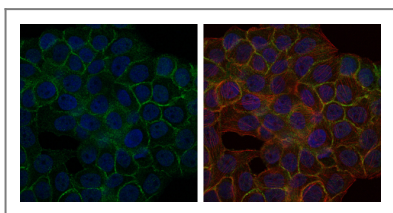
| Validation Data



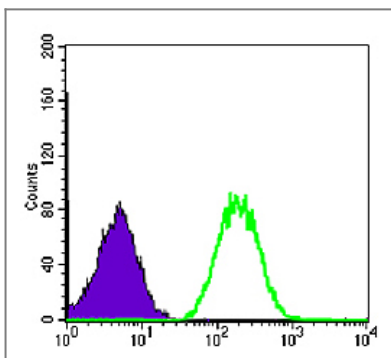
Western Blot analysis using BLNK Monoclonal Antibody against NIH/3T3 (1) and BCBL-1 (2) cell lysate.



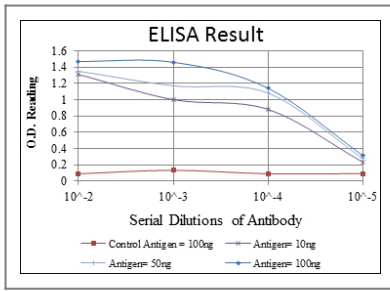
Immunohistochemistry analysis of paraffin-embedded human cervical cancer tissues with DAB staining using BLNK Monoclonal Antibody.



Immunofluorescence analysis of HepG2 cells using BLNK Monoclonal Antibody (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.



Flow cytometric analysis of NIH/3T3 cells using BLNK Monoclonal Antibody (green) and negative control (purple).



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Please scan the QR code to access additional product information:
BLNK Mouse mAb

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