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AM06644SU-N Monoclonal Antibody to B-cell linker protein / BLNK - Ascites

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

Quantity: 0.1 ml

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.

Uniprot ID: Q8WV28

NCBI: NP_001107566.1

GeneID: 29760

Host / Isotype: Mouse / IgG1

Clone: 5G9

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

Format: **State:** Ascitic fluid containing 0.03% sodium azide.

Applications:
Western Blot: 1/500 - 1/2000.
Immunohistochemistry on paraffin sections: 1/200 - 1/1000.
Immunofluorescence: 1/200 - 1/1000.
Flow cytometry: 1/200 - 1/400.
ELISA: 1/10000.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Molecular Weight: 68 kDa

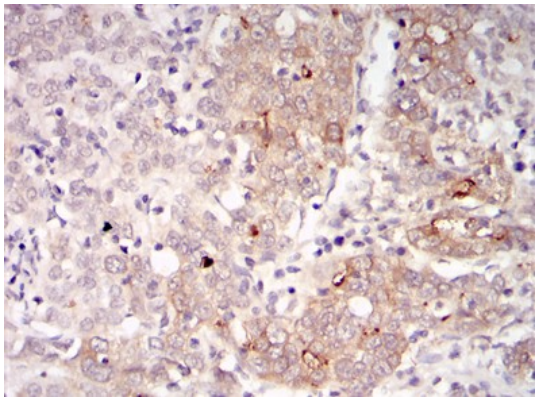
Specificity: This antibody reacts to BLNK.
Species: Human and Mouse.
Other species not tested.

Storage: Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

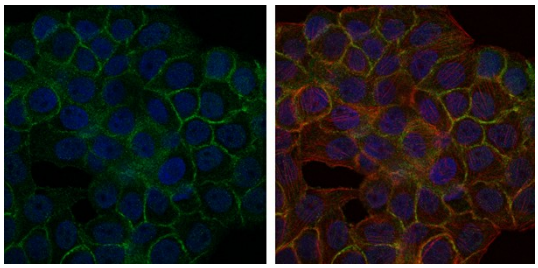
General Readings:
1. J Biol Chem. 2009 Apr 10;284(15):9804-13.
2. Cancer Sci. 2008 Dec;99(12):2444-54.

Pictures:

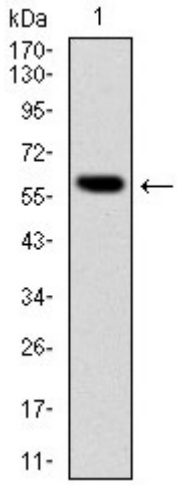
Immunohistochemical analysis of paraffin-embedded human cervical cancer tissues using BLNK mouse mAb with DAB staining.



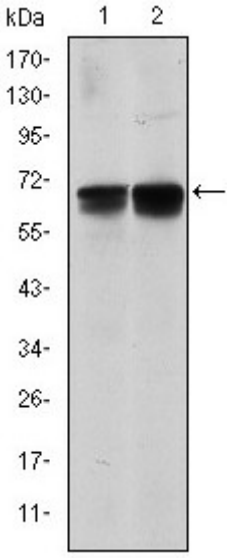
Immunofluorescence analysis of HepG2 cells using BLNK mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.



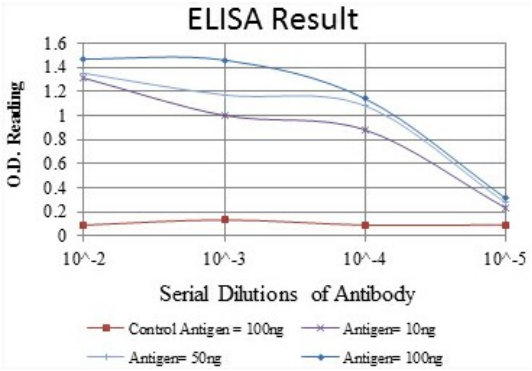
Western blot analysis using BLNK mAb against human BLNK (AA: 34-216) recombinant protein. (Expected MW is 60 kDa)



Western blot analysis using BLNK mouse mAb against NIH/3T3 (1) and BCBL-1 (2) cell lysate.



Control Antigen (100ng) Purple: Antigen (10ng) Green: Antigen (50ng) Blue: Antigen (100ng)



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