

# BLNK (C-19): sc-8382

## BACKGROUND

Cross-linking of the B cell receptor (BCR) activates a variety of signaling pathways involved in processes such as cell proliferation and apoptosis. Intracellular protein tyrosine kinases such as Syk and Lyn have been implicated in this BCR signal transduction and are thought to play an important role in B cell development. BLNK (for B cell linker protein) is a central linker protein in B cells which has been shown to associate with the effector proteins GRB2, Vav, Nck and PLC $\gamma$  following activation of the B cell receptor. The two forms of BLNK, pp68 and pp70, arise from alternate splicing of the human BLNK gene transcript. BLNK is phosphorylated by the Syk tyrosine kinase, which in turn permits activation of downstream effector proteins including GRB2 and PLC $\gamma$ .

## CHROMOSOMAL LOCATION

Genetic locus: BLNK (human) mapping to 10q24.1; Blnk (mouse) mapping to 19 C3.

## SOURCE

BLNK (C-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of BLNK of human origin.

## PRODUCT

Each vial contains 200  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-8382 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

BLNK (C-19) is recommended for detection of BLNK p70 and BLNK p68 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

BLNK (C-19) is also recommended for detection of BLNK p70 and BLNK p68 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for BLNK siRNA (h): sc-29810, BLNK siRNA (m): sc-29811, BLNK shRNA Plasmid (h): sc-29810-SH, BLNK shRNA Plasmid (m): sc-29811-SH, BLNK shRNA (h) Lentiviral Particles: sc-29810-V and BLNK shRNA (m) Lentiviral Particles: sc-29811-V.

Molecular Weight of BLNK: 68/70 kDa.

Positive Controls: NAMALWA cell lysate: sc-2234, BJAB whole cell lysate: sc-2207 or Ramos cell lysate: sc-2216.

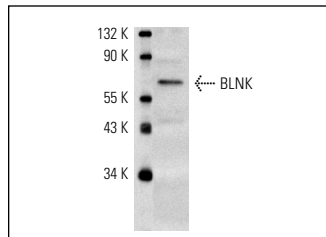
## STORAGE

Store at 4° C, \*\*DO NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

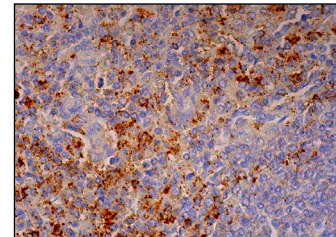
## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## DATA



BLNK (C-19): sc-8382. Western blot analysis of BLNK expression in Ramos whole cell lysate.



BLNK (C-19): sc-8382. Immunoperoxidase staining of formalin fixed, paraffin-embedded human spleen tissue showing cytoplasmic staining of cells in red pulp.

## SELECT PRODUCT CITATIONS

1. Wang, D., et al. 2000. Phospholipase Cy2 is essential in the functions of B cell and several Fc receptors. *Immunity* 13: 25-35.
2. Tsuji, S., et al. 2001. B cell adaptor containing src homology 2 domain (BASH) links B cell receptor signaling to the activation of hematopoietic progenitor kinase 1. *J. Exp. Med.* 194: 529-539.
3. Hayashi, A. 2004. Positive regulation of phagocytosis by SIRP $\beta$  and its signaling mechanism in macrophages. *J. Biol. Chem.* 279: 29450-29460.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.

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Try **BLNK (2B11): sc-8003** or **BLNK (A-11): sc-514780**, our highly recommended monoclonal alternatives to BLNK (C-19). Also, for AC, HRP, FITC, PE, Alexa Fluor<sup>®</sup> 488 and Alexa Fluor<sup>®</sup> 647 conjugates, see **BLNK (2B11): sc-8003**.