

# BANK1 (D-13): sc-133357

## BACKGROUND

BANK1 (B cell scaffold protein with ankyrin repeats) is a 785 amino acid protein that contains one DBB domain and 2 ANK (ankyrin) repeats. Expressed in a variety of B cells with particularly high expression in CD19<sup>+</sup> B cells, BANK1 interacts with Lyn, IP3R-I and IP3R-II and is involved in B cell receptor-induced calcium mobilization from intracellular calcium stores. Via its association with Lyn, BANK1 promotes Lyn-mediated tyrosine phosphorylation of IP3R-I and IP3R-II, an event that activates B cells and may be required for antigen-induced immune responses within the body. Defects in the gene encoding BANK1 increase the genetic susceptibility to systemic lupus erythematosus (SLE), a chronic inflammatory disorder that affects joints, skin, serosal membranes and kidney tissue. BANK1 exists as four isoforms that are produced by alternative splicing events.

## REFERENCES

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3. Aiba, Y., Yamazaki, T., Okada, T., Gotoh, K., Sanjo, H., Ogata, M. and Kurosaki, T. 2006. BANK negatively regulates Akt activation and subsequent B cell responses. *Immunity* 24: 259-268.
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## CHROMOSOMAL LOCATION

Genetic locus: BANK1 (human) mapping to 4q24.

## SOURCE

BANK1 (D-13) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of BANK1 of human origin.

## PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-133357 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

BANK1 (D-13) is recommended for detection of BANK1 isoforms 1-4 of human origin by Western Blotting (starting dilution 1:100, dilution range 1:50-1:500), immunofluorescence (starting dilution 1:25, dilution range 1:25-1:250) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for BANK1 siRNA (h): sc-89307, BANK1 shRNA Plasmid (h): sc-89307-SH and BANK1 shRNA (h) Lentiviral Particles: sc-89307-V.

Molecular Weight (predicted) of BANK1: 89 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200 or PC-3 cell lysate: sc-2220.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## 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.

## PROTOCOLS

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



Try **BANK1 (F-8): sc-393611**, our highly recommended monoclonal alternative to BANK1 (D-13).