

# ANKIB1 (S-19): sc-244914

## BACKGROUND

ANKIB1 (ankyrin repeat and IBR domain containing 1) is a 1,089 amino acid, ubiquitin-interacting motif (UIM) protein belonging to the RBR family. Encoded by a gene that maps to human chromosome 7q21.2, ANKIB1 is conserved in chimpanzee, canine, bovine, mouse, rat, chicken and zebrafish. ANKIB1 contains two ANK repeats, two RING-type zinc fingers, one UIM repeat and one IBR-type zinc finger. However, ANKIB1 lacks one Cys residue in its IBR-type zinc finger domain. ANKIB1 participates in protein and zinc ion binding, and may act as an E3 ubiquitin-protein ligase, or as part of the E3 complex, which receives ubiquitin from E2 ubiquitin-conjugating enzymes and moves it to substrates. Deletion of human chromosome 7q21.2 (KRIT1 locus), which includes partial loss of the ANKIB1 gene, is linked to cerebral cavernous malformations, a common autosomal dominant disorder that predisposes patients to haemorrhagic strokes and focal neurological signs.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: ANKIB1 (human) mapping to 7q21.2; Ankib1 (mouse) mapping to 5 A1.

## SOURCE

ANKIB1 (S-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of ANKIB1 of human origin.

## PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-244914 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

ANKIB1 (S-19) is recommended for detection of ANKIB1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

ANKIB1 (S-19) is also recommended for detection of ANKIB1 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for ANKIB1 siRNA (h): sc-89667, ANKIB1 siRNA (m): sc-141068, ANKIB1 shRNA Plasmid (h): sc-89667-SH, ANKIB1 shRNA Plasmid (m): sc-141068-SH, ANKIB1 shRNA (h) Lentiviral Particles: sc-89667-V and ANKIB1 shRNA (m) Lentiviral Particles: sc-141068-V.

Molecular Weight of ANKIB1: 122 kDa.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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 donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (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.