

# APBB1IP (N-13): sc-104813

## BACKGROUND

APBB1IP [amyloid  $\beta$  (A4) precursor protein-binding, family B, member 1 interacting protein], also known as PREL1 (proline-rich EVH1 ligand 1), RARP1 (retinoic acid-responsive proline-rich protein 1) or RIAM (Rap1-GTP-interacting adapter molecule), is a 666 amino acid protein that contains one PH domain, one Ras-associating domain and belongs to the MRL family. Encoded by a gene that maps to human chromosome 10p12.1, APBB1IP likely functions in signal transduction from Ras activation to actin cytoskeletal remodeling. APBB1IP also suppresses Insulin-induced promoter activities, by way of SRE and AP1. The two proline-rich regions of APBB1IP are necessary for AP1 transcription suppression. Ubiquitously expressed, with high expression in thymus, spleen, lymph node, bone marrow and peripheral leukocytes, APBB1IP is induced by all-*trans*-retinoic acid (ATRA) and mediates Rap 1-induced adhesion. APBB1IP also interacts with RAP 1A, Profilin-1, VASP and Mena.

## REFERENCES

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- Morgan, A.R., et al. 2007. Association studies of 23 positional/functional candidate genes on chromosome 10 in late-onset Alzheimer's disease. *Am. J. Med. Genet. B Neuropsychiatr. Genet.* 144B: 762-770.
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## CHROMOSOMAL LOCATION

Genetic locus: APBB1IP (human) mapping to 10p12.1; Apbb1ip (mouse) mapping to 2 A3.

## SOURCE

APBB1IP (N-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of APBB1IP of human origin.

## 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.

## 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-104813 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

APBB1IP (N-13) is recommended for detection of APBB1IP 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).

APBB1IP (N-13) is also recommended for detection of APBB1IP in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for APBB1IP siRNA (h): sc-90400, APBB1IP siRNA (m): sc-141145, APBB1IP shRNA Plasmid (h): sc-90400-SH, APBB1IP shRNA Plasmid (m): sc-141145-SH, APBB1IP shRNA (h) Lentiviral Particles: sc-90400-V and APBB1IP shRNA (m) Lentiviral Particles: sc-141145-V.

Molecular Weight of APBB1IP: 73 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.

## PROTOCOLS

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