APPBP2 (L-16): sc-51461

SANTA CRUZ® BIOTECHNOLOGY

The Power to Question

BACKGROUND

APPBP2 (β-Amyloid precursor protein-binding protein2), also known as protein interacting with APP tail 1 (PAT1) or ARA67, is a hydrophilic, microtubule binding protein that functions in the trafficking of β-Amyloid precursor protein. It is expressed in a variety of cell types and localizes to the cytoplasm. APPBP2 shares homology with Kinesin light chain. It consists of a coiled coil domain, PKC phosphorylation sites, four imperfect C-terminal tandem repeats, eight tetratricopeptide repeats and N- and C-terminal globular structures. APPBP2 recognizes and binds to the basolateral sorting sequence (BaSS) present in the cytoplasmic domain of β-Amyloid precursor protein. In addition, APPBP2 interacts with the androgen receptor and suppresses androgen signaling.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: APPBP2 (human) mapping to 17q23.2; Appbp2 (mouse) mapping to 11 C.

SOURCE

APPBP2 (L-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of APPBP2 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-51461 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

APPBP2 (L-16) is recommended for detection of APPBP2 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).

APPBP2 (L-16) is also recommended for detection of APPBP2 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for APPBP2 siRNA (h): sc-106762, APPBP2 siRNA (m): sc-141177, APPBP2 shRNA Plasmid (h): sc-106762-SH, APPBP2 shRNA Plasmid (m): sc-141177-SH, APPBP2 shRNA (h) Lentiviral Particles: sc-106762-V and APPBP2 shRNA (m) Lentiviral Particles: sc-141177-V.

Molecular Weight (predicted) of APPBP2: 67 kDa.

Molecular Weight (observed) of APPBP2: 63 kDa.

Positive Controls: HL-60 whole cell lysate: sc-2209 or human fetal brain tissue extract.

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 or our catalog for detailed protocols and support products.