

APPBP2 (H-300): sc-292460

BACKGROUND

APPBP2 (β -Amyloid precursor protein-binding protein 2), 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 the β -Amyloid precursor protein. In addition, APPBP2 interacts with the androgen receptor and suppresses androgen signaling.

CHROMOSOMAL LOCATION

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

SOURCE

APPBP2 (H-300) is a rabbit polyclonal antibody raised against amino acids 1-300 mapping at the N-terminus of APPBP2 of human origin.

PRODUCT

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

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.

APPLICATIONS

APPBP2 (H-300) 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), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], 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 (H-300) is also recommended for detection of APPBP2 in additional species, including equine, canine, bovine 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.

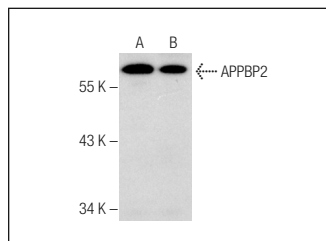
Molecular Weight (observed) of APPBP2: 63 kDa.

Positive Controls: Mouse cerebellum extract: sc-2403 or mouse hypothalamus tissue extract.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



APPBP2 (H-300): sc-292460. Western blot analysis of APPBP2 expression in mouse hypothalamus (A) and mouse cerebellum (B) tissue extracts.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

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Try **APPBP2 (4-RE24): sc-134266**, our highly recommended monoclonal alternative to APPBP2 (H-300).