SANTA CRUZ BIOTECHNOLOGY, INC.

APPBP2 (4-RE24): sc-134266

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The Power to Question

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.

REFERENCES

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CHROMOSOMAL LOCATION

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

SOURCE

APPBP2 (4-RE24) is a mouse monoclonal antibody raised against recombinant APPBP2 protein of human origin.

PRODUCT

Each vial contains 100 µg IgG_{2a} kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

APPBP2 (4-RE24) 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 µg per 100-500 µg of total protein (1 ml of cell lysate)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

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.

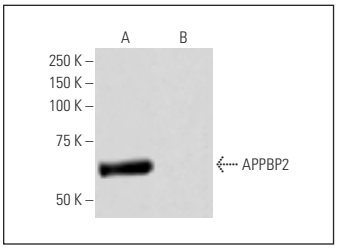
Molecular Weight (observed) of APPBP2: 63 kDa.

Positive Controls: HL-60 whole cell lysate: sc-2209 or human APPBP2 transfected 293T whole cell lysate.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

DATA



APPBP2 (4-RE24): sc-134266. Western blot analysis of APPBP2 expression in human APPBP2 transfected (**A**) and non-transfected (**B**) 293T whole cell lysates.

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.