

APPBP1 (QQ7): sc-100322

BACKGROUND

APPBP1 (β -Amyloid precursor protein-binding protein 1), also known as NAE1 (NEDD8-activating enzyme E1 regulatory subunit 1), HPP1 or ula-1, is a member of the ubiquitin-activating E1 family. In fetal tissues APPBP1 is widely expressed and in adult tissues it is expressed throughout the brain. APPBP1 is a cell membrane associated protein and functions as the regulatory subunit in a heterodimer with UBA3. The APPBP1/UBA3 complex binds to and activates NEDD8, a ubiquitin-like protein involved in signal transduction, cell proliferation and development. This suggests that APPBP1 affects a variety of cellular functions. In addition, APPBP1 is essential for cell cycle progression through the S/M checkpoint. More specifically, it inhibits the entry into S phase and promotes entry into M phase.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: NAE1 (human) mapping to 16q22.1; Nae1 (mouse) mapping to 8 D3.

SOURCE

APPBP1 (QQ7) is a mouse monoclonal antibody raised against recombinant APPBP1 of human origin.

PRODUCT

Each vial contains 100 μ g IgG2a 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.

APPLICATIONS

APPBP1 (QQ7) is recommended for detection of APPBP1 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)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for APPBP1 siRNA (h): sc-77421, APPBP1 siRNA (m): sc-106975, APPBP1 shRNA Plasmid (h): sc-77421-SH, APPBP1 shRNA Plasmid (m): sc-106975-SH, APPBP1 shRNA (h) Lentiviral Particles: sc-77421-V and APPBP1 shRNA (m) Lentiviral Particles: sc-106975-V.

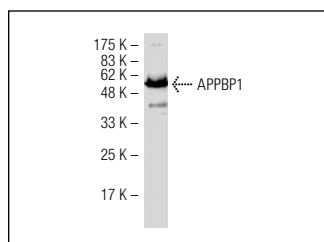
Molecular Weight of APPBP1 membrane associated form: 65 kDa.

Molecular Weight of APPBP1 cytosolic form: 59 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-mouse IgG-HRP: sc-2005 (dilution range: 1:2000-1:32,000) or Cruz Marker™ compatible goat anti-mouse IgG-HRP: sc-2031 (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).

DATA



APPBP1 (QQ7): sc-100322. Western blot analysis of APPBP1 expression in HeLa whole cell lysate.

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.