

APPBP1 (20): sc-135839

BACKGROUND

APPBP1 (β -Amyloid precursor protein-binding protein 1), also known as NAE1 (NEDD8-activating enzyme E1 regulatory subunit 1), HPP1 or Ula1, 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.

RESEARCH USE

For research use only, not for use in diagnostic procedures. Not for resale.

SOURCE

APPBP1 (20) is a mouse monoclonal antibody raised against amino acids 348-464 of APPBP1 of human origin.

PRODUCT

Each vial contains 50 μ g IgG_{2a} in 0.5 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

APPBP1 (20) 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) and immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)].

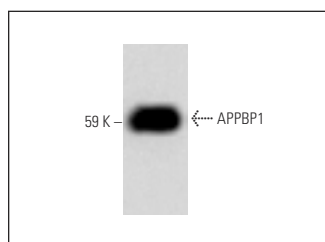
Suitable for use as control antibody for APPBP1 siRNA (h): sc-77421, APPBP1 siRNA (m): sc-106975, APPBP1 shRNA Plasmid (h): sc-77421-SH, APPBP1 shRNA Plasmid (m): sc-106975-SH, APPBP1 shRNA (h) Lentiviral Particles: sc-77421-V and APPBP1 shRNA (m) Lentiviral Particles: sc-106975-V.

Molecular Weight of APPBP1 membrane associated form: 65 kDa.

Molecular Weight of APPBP1 cytosolic form: 59 kDa.

Positive Controls: RSV-3T3 cell lysate or HeLa whole cell lysate: sc-2200.

DATA



APPBP1 (20): sc-135839. Western blot analysis of APPBP1 expression in RSV-3T3 whole cell lysate.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

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