

SYNJ2BP (H-82): sc-135417

BACKGROUND

SYNJ2BP (synaptojanin-2-binding protein), also known as mitochondrial outer membrane protein 25 (OMP25) or ARIP2, is a 145 amino acid mitochondrial outer membrane protein that contains one PDZ (DHR) domain. The PDZ domain on SYNJ2BP binds to isoform 2A of Synaptojanin 2. The gene that encodes SYNJ2BP contains 50,595 bases and maps to human chromosome 14q24.2. Housing over 700 genes, chromosome 14 comprises nearly 3.5% of the human genome. Chromosome 14 encodes the Presenilin 1 (PSEN1) gene, which is one of the three key genes associated with the development of Alzheimer's disease. The SERPINA1 gene is also located on chromosome 14 and, when defective, leads to the genetic disorder α 1-antitrypsin deficiency, which is characterized by severe lung complications and liver dysfunction.

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RESEARCH USE

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

CHROMOSOMAL LOCATION

Genetic locus: SYNJ2BP (human) mapping to 14q24.2; Synj2bp (mouse) mapping to 12 D1.

SOURCE

SYNJ2BP (H-82) is a rabbit polyclonal antibody raised against amino acids 64-145 mapping at the C-terminus of SYNJ2BP 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.

APPLICATIONS

SYNJ2BP (H-82) is recommended for detection of SYNJ2BP 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).

SYNJ2BP (H-82) is also recommended for detection of SYNJ2BP in additional species, including equine, bovine and porcine.

Suitable for use as control antibody for SYNJ2BP siRNA (h): sc-92196, SYNJ2BP siRNA (m): sc-153988, SYNJ2BP shRNA Plasmid (h): sc-92196-SH, SYNJ2BP shRNA Plasmid (m): sc-153988-SH, SYNJ2BP shRNA (h) Lentiviral Particles: sc-92196-V and SYNJ2BP shRNA (m) Lentiviral Particles: sc-153988-V.

Molecular Weight of SYNJ2BP: 16 kDa.

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.

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 or our catalog for detailed protocols and support products.