

Endophilin B2 (Q-18): sc-50571

BACKGROUND

The endophilins comprise a family of proteins that associate with Amphiphysin, Synaptojanin and Dynamin and are implicated in presynaptic vesicle trafficking at nerve terminals. The expression patterns of the Endophilins are consistent with their cellular functions at the neuronal synapse. Endophilin B1 is a member of the B subgroup of the Endophilin family that is required for maintenance of mitochondrial morphology and for the regulation of the outer mitochondrial membrane dynamics. Endophilin B2 is also a member of the Endophilin B subgroup that is ubiquitously expressed but shows highest levels in brain, adult lung, ovary and spinal cord. Decreased levels of Endophilin B2 are found in Down syndrome and may reflect brain dysgenesis.

CHROMOSOMAL LOCATION

Genetic locus: SH3GLB2 (human) mapping to 9q34.11; Sh3glb2 (mouse) mapping to 2 B.

SOURCE

Endophilin B2 (Q-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of Endophilin B2 of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-50571 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

Endophilin B2 (Q-18) is recommended for detection of all isoforms of Endophilin B2 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)], 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).

Endophilin B2 (Q-18) is also recommended for detection of all isoforms of Endophilin B2 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for Endophilin B2 siRNA (h): sc-60579, Endophilin B2 siRNA (m): sc-60580, Endophilin B2 shRNA Plasmid (h): sc-60579-SH, Endophilin B2 shRNA Plasmid (m): sc-60580-SH, Endophilin B2 shRNA (h) Lentiviral Particles: sc-60579-V and Endophilin B2 shRNA (m) Lentiviral Particles: sc-60580-V.

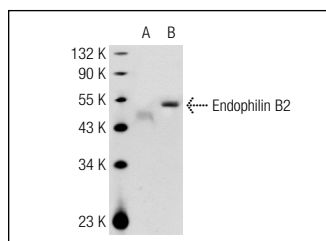
Molecular Weight of Endophilin B2: 44 kDa.

Positive Controls: Endophilin B2 (h2): 293T Lysate: sc-177187.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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 donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



Endophilin B2 (Q-18): sc-50571. Western blot analysis of Endophilin B2 expression in non-transfected: sc-117752 (A) and human Endophilin B2 transfected: sc-177187 (B) 293T whole cell lysates.

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.

MONOS
Satisfaction
Guaranteed

Try **Endophilin B2 (A-10): sc-365608** or **Endophilin B2 (C-10): sc-271129**, our highly recommended monoclonal alternatives to Endophilin B2 (Q-18).