

Endophilin II (S-20): sc-10878

BACKGROUND

The endophilins comprise a family of three SH3 domain-containing proteins designated Endophilin I, II and III, or alternatively known as SH3P4, SH3P8 and SH3P13, respectively. These proteins 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 as endophilin I is expressed only in the brain. Both Endophilin II and Endophilin III are detected in a variety of tissues. Endophilin I is also implicated in modulating G protein-coupled receptor signaling by functioning as an adapter protein and directing $\beta 1$ adrenergic receptors to the endocytic machinery.

CHROMOSOMAL LOCATION

Genetic locus: SH3GL1 (human) mapping to 19p13.3; Sh3gl1 (mouse) mapping to 17 D.

SOURCE

Endophilin II (S-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of Endophilin II of mouse origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-10878 P, (100 μ g 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 II (S-20) is recommended for detection of Endophilin II 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).

Endophilin II (S-20) is also recommended for detection of endophilin II in additional species, including equine, canine and bovine.

Suitable for use as control antibody for Endophilin II siRNA (h): sc-35306, Endophilin II siRNA (m): sc-35307, Endophilin II shRNA Plasmid (h): sc-35306-SH, Endophilin II shRNA Plasmid (m): sc-35307-SH, Endophilin II shRNA (h) Lentiviral Particles: sc-35306-V and Endophilin II shRNA (m) Lentiviral Particles: sc-35307-V.

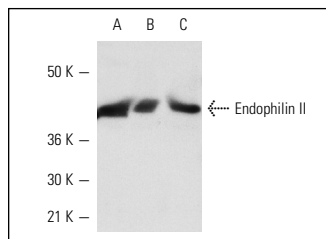
Molecular Weight of Endophilin II: 45 kDa.

Positive Controls: Endophilin II (h): 293 Lysate: sc-110538, F9 cell lysate: sc-2245 or EOC 20 whole cell lysate: sc-364187.

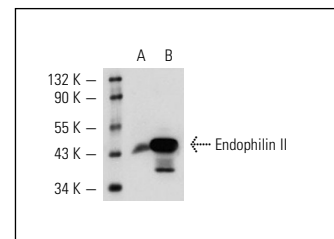
RECOMMENDED SECONDARY REAGENTS

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 II (S-20): sc-10878. Western blot analysis of Endophilin II expression in EOC 20 (A) and F9 (B) whole cell lysates and mouse testis extract (C).



Endophilin II (S-20): sc-10878. Western blot analysis of Endophilin II expression in non-transfected: sc-110760 (A) and human Endophilin II transfected: sc-110538 (B) 293 whole cell lysates.

SELECT PRODUCT CITATIONS

- Ma, L.H., et al. 2007. Aberrant transcriptional regulation of the MLL fusion partner EEN by AML1-ETO and its implication in leukemogenesis. *Blood* 109: 769-777.
- Zhang, J., et al. 2012. Characterization of two distinct modes of endophilin in clathrin-mediated endocytosis. *Cell. Signal.* 24: 2043-2050.

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 II (A-11): sc-365704** or **Endophilin II (H-2): sc-390013**, our highly recommended monoclonal alternatives to Endophilin II (S-20).