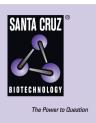
### SANTA CRUZ BIOTECHNOLOGY, INC.

# Endophilin I-III (C-17): sc-8907



#### 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.

#### REFERENCES

- Giachino, C., et al. 1997. Novel SH3-containing human gene family preferentially expressed in the central nervous system. Genomics 41: 427-434.
- Ringstad, N., et al. 1997. The SH3p4/Sh3p8/ SH3p13 protein family: binding partners for Synaptojanin and Dynamin via a GRB2-like Src homology 3 domain. Proc. Natl. Acad. Sci. USA 94: 8569-8574.

#### SOURCE

Endophilin I-III (C-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of Endophilin III of human origin.

#### PRODUCT

Each vial contains 200  $\mu g$  lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-8907 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

#### **APPLICATIONS**

Endophilin I-III (C-17) is recommended for detection of Endophilin I, Endophilin III and, to a lesser extent, Endophilin II 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 I-III (C-17) is also recommended for detection of Endophilin I, Endophilin II and Endophilin III in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for Endophilin III siRNA (h): sc-35308, Endophilin III siRNA (m): sc-35309, Endophilin III shRNA Plasmid (h): sc-35308-SH, Endophilin III shRNA Plasmid (m): sc-35309-SH, Endophilin III shRNA (h) Lentiviral Particles: sc-35308-V and Endophilin III shRNA (m) Lentiviral Particles: sc-35309-V.

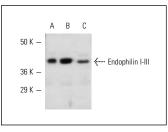
Molecular Weight of Endophilin I-III: 40 kDa.

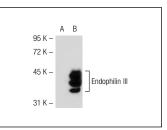
Positive Controls: Endophilin III (m): 293T Lysate: sc-126796, mouse brain extract: sc-2253 or rat brain extract: sc-2392.

#### **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 I-III (C-17): sc-8907. Western blot analysis of Endophilin expression in rat brain (A), mouse brain (B) and rat testis (C) extracts.

Endophilin I-III (C-17): sc-8907. Western blot analysis of Endophilin III expression in non-transfected: sc-117752 (**A**) and mouse Endophilin III transfected: sc-126796 (**B**) 293T whole cell lysates.

#### **STORAGE**

Store at 4° C, \*\*D0 NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

#### **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 Satisfation Guaranteed

Try **Endophilin II (A-11): sc-365704**, our highly recommended monoclonal alternative to Endophilin I-III (C-17).