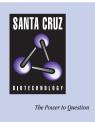
## SANTA CRUZ BIOTECHNOLOGY, INC.

# neuroligin 2 (H-40): sc-50394



#### BACKGROUND

Neuroligins are a family of plasma membrane proteins that possess an N-terminal hydrophobic domain, a large esterase homology domain, a single transmembrane region, a short cytoplasmic domain and an EF-hand binding domain. Members of the neuroligin family include neuroligin 1, 2 and 3. Neuroligins, which are expressed in excitatory neuronal synaptic clefts, play a role in the formation and remodeling of CNS synapses by binding to  $\beta$ -neurexins, a family of neuronal cell surface proteins. Neuroligins also bind to PSD-95, which may recruit ion channels and neurotransmitter receptors to the synapses.

## REFERENCES

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- Philibert R.A., Winfield, S.L., Sandhu, H.K., Martin, B.M. and Ginns, E.I. 2000. The structure and expression of the human neuroligin 3 gene. Gene 246: 303-310.
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## CHROMOSOMAL LOCATION

Genetic locus: NLGN2 (human) mapping to 17p13.1; Nlgn2 (mouse) mapping to 11 B3.

#### SOURCE

neuroligin 2 (H-40) is a rabbit polyclonal antibody raised against amino acids 23-62 mapping within an extracellular domain of neuroligin 2 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.

### **RESEARCH USE**

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

#### APPLICATIONS

neuroligin 2 (H-40) is recommended for detection of neuroligin 2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1–2  $\mu$ g per 100–500  $\mu$ 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).

Suitable for use as control antibody for neuroligin 2 siRNA (h): sc-42085 and neuroligin 2 siRNA (m): sc-42086.

Molecular Weight of neuroligin 2: 93 kDa.

Positive Controls: EOC20 whole cell lysate or BC3H1 cell lysate: sc-2299.

#### **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<sup>™</sup> compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker<sup>™</sup> 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<sup>™</sup> Mounting Medium: sc-24941.

#### **STORAGE**

Store at 4° C, \*\*D0 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.