neuroligin 3 (C-19): sc-14093



The Power to Question

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, neuroligin 2 and neuroligin 3. Neuroligins are expressed in excitatory neuronal synaptic clefts. Neuroligins play a role in the formation and remodeling of CNS synapses by binding to β -neurexins, a family of neuronal cell surface proteins. Neurexin 1β binds to the EF-hand domain of neuroligin 1 and requires calcium ion. Neuroligins also bind to PSD-95, which may recruit ion channels and neurotransmitter receptors to the synapses.

CHROMOSOMAL LOCATION

Genetic locus: NLGN3 (human) mapping to Xq13.1; Nlgn3 (mouse) mapping to X D.

SOURCE

neuroligin 3 (C-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of neuroligin 3 of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-14093 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

neuroligin 3 (C-19) is recommended for detection of neuroligin 3 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).

neuroligin 3 (C-19) is also recommended for detection of neuroligin 3 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for neuroligin 3 siRNA (h): sc-42087, neuroligin 3 siRNA (m): sc-42088, neuroligin 3 shRNA Plasmid (h): sc-42087-SH, neuroligin 3 shRNA Plasmid (m): sc-42088-SH, neuroligin 3 shRNA (h) Lentiviral Particles: sc-42087-V and neuroligin 3 shRNA (m) Lentiviral Particles: sc-42088-V.

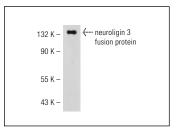
Molecular Weight of neuroligin 3: 88 kDa.

Positive Controls: BC₃H1 cell lysate: sc-2299.

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



neuroligin 3 (C-19): sc-14093. Western blot analysis of human recombinant neuroligin 3 fusion protein.

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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.



Try neuroligin 3 (C-3): sc-137052 or neuroligin 3 (G-2): sc-271880, our highly recommended monoclonal aternatives to neuroligin 3 (C-19).

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