

Neurexophilin-2 (V-18): sc-66479

BACKGROUND

Neurexophilin-1 (also known as NPH1 or NXPH1), Neurexophilin-2 (also known as NPH2 or NXPH2) and Neurexophilin-3 (also known as NPH3 or NXPH3) are members of the neurexophilin family (Neurexophilin-1-4) of neuropeptide-like glycoproteins that are proteolytically processed after synthesis. Neurexophilin-1-3 are secreted proteins that are thought to function as signaling molecules which specifically bind to target proteins, such as neurexin I α (a protein that promotes adhesion between dendrites and axons), and are essential for proper neurotransmitter release. While Neurexophilin-1 is located primarily in spleen tissue, Neurexophilin-2 is expressed primarily in kidney and both Neurexophilin-2 and Neurexophilin-3 are highly expressed in brain. Defects in the gene encoding Neurexophilin-1 may be associated with schizophrenia, a mental disorder characterized by an abnormal perception of reality.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: NXPH2 (human) mapping to 2q22.1; Nxph2 (mouse) mapping to 2 A3.

SOURCE

Neurexophilin-2 (V-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Neurexophilin-2 of human origin.

STORAGE

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

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-66479 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Neurexophilin-2 (V-18) is recommended for detection of Neurexophilin-2 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).

Neurexophilin-2 (V-18) is also recommended for detection of Neurexophilin-2 in additional species, including bovine.

Suitable for use as control antibody for Neurexophilin-2 siRNA (h): sc-62677, Neurexophilin-2 siRNA (m): sc-62678, Neurexophilin-2 shRNA Plasmid (h): sc-62677-SH, Neurexophilin-2 shRNA Plasmid (m): sc-62678-SH, Neurexophilin-2 shRNA (h) Lentiviral Particles: sc-62677-V and Neurexophilin-2 shRNA (m) Lentiviral Particles: sc-62678-V.

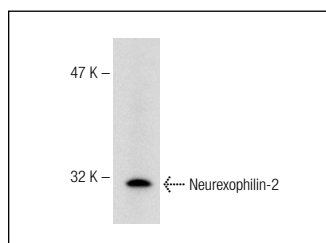
Molecular Weight of Neurexophilin-2: 30 kDa.

Positive Controls: Mouse brain extract: sc-2253 or H4 cell lysate: sc-2408.

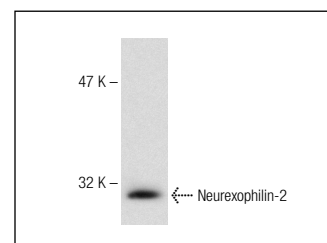
RECOMMENDED SECONDARY REAGENTS

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 Blotting 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



Neurexophilin-2 (V-18): sc-66479. Western blot analysis of Neurexophilin-2 expression in mouse brain tissue extract.



Neurexophilin-2 (V-18): sc-66479. Western blot analysis of Neurexophilin-2 expression in H4 whole cell lysate.

RESEARCH USE

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