Neurofascin (P-19): sc-51153



The Power to Question

BACKGROUND

Members of the L1 subgroup of the immunoglobulin (lg) superfamily promote axon outgrowth by interactions with a neuronal NgCAM-related cell adhesion molecule. Neurofascin is a cell adhesion, ankyrin-binding, single-pass membrane protein that plays a role in neurite extension in embryonic development. It also is involved in synaptogenesis, myelination and neuron-glial cell interaction. Neurofascin may be a component of a Neurofascin/NRCAM/Ankyrin G complex and can dimerize in solution. The Neurofascin protein interacts with GLDN/gliomedin and associates with the sodium channel β -3 (SCN3B) and β -1 (SCNB1) subunits. It contains five Fibronectin type-III domains and six lg-like C2-type (immunoglobulin-like) domains. There are 13 known isoforms of the Neurofascin protein.

REFERENCES

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- 8. Maier, O., et al. 2006. The function of neurofascin155 in oligodendrocytes is regulated by metall cleavage and ectodomain shedding. Exp. Cell Res. 312: 500-511.

CHROMOSOMAL LOCATION

Genetic locus: NFASC (human) mapping to 1q32.1; Nfasc (mouse) mapping to 1 E4.

SOURCE

Neurofascin (P-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an N-terminal extracellular domain of Neurofascin 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 μg IgG in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-51153 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Neurofascin (P-19) is recommended for detection of Neurofascin 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).

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

Suitable for use as control antibody for Neurofascin siRNA (h): sc-61184, Neurofascin siRNA (m): sc-61185, Neurofascin shRNA Plasmid (h): sc-61184-SH, Neurofascin shRNA Plasmid (m): sc-61185-SH, Neurofascin shRNA (h) Lentiviral Particles: sc-61184-V and Neurofascin shRNA (m) Lentiviral Particles: sc-61185-V.

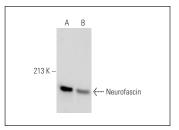
Molecular Weight of Neurofascin: 155 kDa.

Positive Controls: 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



Neurofascin (P-19): sc-51153. Western blot analysis of Neurofascin expression in mouse brain (**A**) and rat brain (**B**) tissue extracts.

RESEARCH USE

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