

Neuron navigator 1 (E-14): sc-161933

BACKGROUND

Neuron navigator 1, also known as Unc-53 homolog 1, Steerin-1 and POM-FIL3 (Pore membrane and/or filament-interacting-like protein 3), is a 1877 amino acid cytoplasmic protein that is involved in neuronal migration. Neuron navigator 1 is widely expressed at low levels, though highest expression is found in both adult and fetal nervous tissue. Through interaction with tubulin, Neuron navigator 1 associates with a subset of microtubule plus ends present in the growth cone. Overexpression of Neuron navigator 1 leads to microtubule bundling, whereas a reduction of its levels causes loss of directionality in the migration of pontine cell leading processes. There are seven isoforms of Neuron navigator 1 that are produced as a result of alternative splicing events.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: NAV1 (human) mapping to 1q32.1; Nav1 (mouse) mapping to 1 E4.

SOURCE

Neuron navigator 1 (E-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Neuron navigator 1 of human origin.

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-161933 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Neuron navigator 1 (E-14) is recommended for detection of Neuron navigator 1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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); non cross-reactive with Neuron navigator 2 or Neuron navigator 3.

Suitable for use as control antibody for Neuron navigator 1 siRNA (h): sc-88753, Neuron navigator 1 siRNA (m): sc-149934, Neuron navigator 1 shRNA Plasmid (h): sc-88753-SH, Neuron navigator 1 shRNA Plasmid (m): sc-149934-SH, Neuron navigator 1 shRNA (h) Lentiviral Particles: sc-88753-V and Neuron navigator 1 shRNA (m) Lentiviral Particles: sc-149934-V.

Molecular Weight of Neuron navigator 1: 203 kDa.

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) 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.

STORAGE

Store at 4° C, **DO 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.


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Try **Neuron navigator 1 (G-12): sc-398641**, our highly recommended monoclonal alternative to Neuron navigator 1 (E-14).