

Nicalin (E-18): sc-65148

BACKGROUND

Nicastrin is an integral part of the Alzheimers associated γ -secretase complex. Nicalin, a Nicastrin-like protein, is not associated with γ -secretase but rather interacts with NOMO (Nodal modulator). Nodals are TGF β signaling factors that control various cell fate decisions during embryonic body planning stages in vertebrate development. The Nicalin/NOMO complex acts to regulate the Nodal signaling factors during gastrulation. This regulation most often affects the development of the axial mesoderm. Nodal signaling is an important factor for melanoma cell invasiveness and tumorigenicity and inhibition of this signal can promote melanoma cells reverting back toward a melanocyte phenotype.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: NCLN (human) mapping to 19p13.3; Ncln (mouse) mapping to 10 C1.

SOURCE

Nicalin (E-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of Nicalin of human origin.

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-65148 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Nicalin (E-18) is recommended for detection of Nicalin 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).

Nicalin (E-18) is also recommended for detection of Nicalin in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for Nicalin siRNA (h): sc-62687, Nicalin siRNA (m): sc-62688, Nicalin shRNA Plasmid (h): sc-62687-SH, Nicalin shRNA Plasmid (m): sc-62688-SH, Nicalin shRNA (h) Lentiviral Particles: sc-62687-V and Nicalin shRNA (m) Lentiviral Particles: sc-62688-V.

Molecular Weight of Nicalin: 63 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.