

Neurotrimin (H-40): sc-98979

BACKGROUND

Cell adhesion molecules (CAMs) influence cell growth, differentiation, embryogenesis, immune response and cancer metastasis by networking information from the extracellular matrix to the cell. The four major families of cell adhesion molecules are immunoglobulin (Ig) superfamily (calcium-independent transmembrane glycoproteins), integrins (transmembrane non-covalently linked heterodimers of α and β subunits), calcium-dependent cadherins and divalent cation-dependent selectins. Regulation of neuronal synaptic adhesion by CAMs has proven important for learning and memory. Proper embryonic morphogenic development is also heavily dependent on the regulation of cell adhesion molecules. Neurotrimin (hNT) is a neural cell adhesion molecule localizing to the cell membrane, where it acts as a lipid-anchor. Neurotrimin belongs to the IgLON family of proteins, a member of the larger immunoglobulin superfamily.

CHROMOSOMAL LOCATION

Genetic locus: NTM (human) mapping to 11q25; Ntm (mouse) mapping to 9 A4.

SOURCE

Neurotrimin (H-40) is a rabbit polyclonal antibody raised against amino acids 251-290 mapping near the C-terminus of Neurotrimin 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.

STORAGE

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

APPLICATIONS

Neurotrimin (H-40) is recommended for detection of Neurotrimin 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); may cross-react with OBCAM.

Neurotrimin (H-40) is also recommended for detection of Neurotrimin in additional species, including equine, bovine and porcine.

Suitable for use as control antibody for Neurotrimin siRNA (h): sc-61191, Neurotrimin siRNA (m): sc-61192, Neurotrimin shRNA Plasmid (h): sc-61191-SH, Neurotrimin shRNA Plasmid (m): sc-61192-SH, Neurotrimin shRNA (h) Lentiviral Particles: sc-61191-V and Neurotrimin shRNA (m) Lentiviral Particles: sc-61192-V.

Molecular Weight of Neurotrimin: 39 kDa.

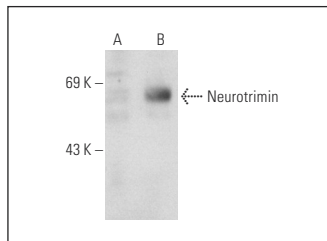
Molecular Weight of glycosylated Neurotrimin: 55-65 kDa.

Positive Controls: Neurotrimin (h): 293T Lysate: sc-116403.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



Neurotrimin (H-40): sc-98979. Western blot analysis of Neurotrimin expression in non-transfected: sc-117752 (A) and human Neurotrimin transfected: sc-116403 (B) 293T whole cell lysates.

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 **Neurotrimin (F-9): sc-390941**, our highly recommended monoclonal alternative to Neurotrimin (H-40).