**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 (F-9) is a mouse monoclonal antibody raised against amino acids 251-290 mapping near the C-terminus of Neurotrimin of human origin.

**PRODUCT**

Each vial contains 200 µg IgG1 lambda light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Neurotrimin (F-9) is available conjugated to agarose (sc-390941 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-390941 HRP), 200 µg/ml, for WB, HICP and ELISA: to either phycoerythrin (sc-390941 PE), fluorescein (sc-390941 FITC), Alexa Fluor® 488 (sc-390941 AF488), Alexa Fluor® 546 (sc-390941 AF546), Alexa Fluor® 594 (sc-390941 AF594) or Alexa Fluor® 647 (sc-390941 AF647), 200 µg/ml, for WB (RGB), IF, HICP and FCM; and to either Alexa Fluor® 680 (sc-390941 AF680) or Alexa Fluor® 790 (sc-390941 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

**APPLICATIONS**

Neurotrimin (F-9) is recommended for detection of Neurotrimin of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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). Neurotrimin (F-9) is also recommended for detection of Neurotrimin in additional species, including 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.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:

1) Western Blotting: use m-IgG HRP: sc-516132 or m-IgG HRP (Cruz Marker); sc-516132-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz®Blocking Reagent: sc-516214 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 m-IgG, BP-FITC: sc-516186 or m-IgG, BP-PE: sc-516186 (dilution range: 1:50-1:200) with UltraCruz®Mounting Medium: sc-24941 or UltraCruz®Hard-set Mounting Medium: sc-359850.

**DATA**

**SELECT PRODUCT CITATIONS**


**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 for detailed protocols and support products.

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