**BACKGROUND**

Neuropilin is a type I transmembrane receptor that has been implicated in aspects of axon growth and guidance and has been shown to act as a high affinity receptor for class III semaphorins and vascular endothelial growth factor (VEGF). A closely related protein, neuropilin-2, shares a common domain structure and significant homology with neuropilin and also acts as a receptor for the class III semaphorins and VEGF. Both neuropilins are involved in regulating many physiological pathways including axonal guidance and angiogenesis, however they exhibit differential expression in the adult vasculature.

Neuropilin-2 is polyasialylated and expressed on the surface of dendritic cells. It is also expressed by venous and lymphatic endothelium. Neuropilin is expressed predominantly by arterial endothelium.

**CHROMOSOMAL LOCATION**

Genetic locus: NRP2 (human) mapping to 2q33.3; Nrp2 (mouse) mapping to 1C2.

**SOURCE**

neuropilin-2 (C-9) is a mouse monoclonal antibody raised against amino acids 560-858 of neuropilin-2 of human origin.

**PRODUCT**

Each vial contains 200 µg IgG2b kappa light chain in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

**APPLICATIONS**

neuropilin-2 (C-9) is recommended for detection of neuropilin-2 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for neuropilin-2 siRNA (h): sc-36040, neuropilin-2 siRNA (m): sc-36041, neuropilin-2 shRNA Plasmid (h): sc-36040-SH, neuropilin-2 shRNA Plasmid (m): sc-36041-SH, neuropilin-2 shRNA (h) Lentiviral Particles: sc-36040-V and neuropilin-2 shRNA (m) Lentiviral Particles: sc-36041-V.

Molecular Weight of neuropilin-2: 116 kDa.

Positive Controls: SK-N-SH cell lysate: sc-2410 or HUV-EC-C whole cell lysate: sc-364180.

**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.

**DATA**

neuropilin-2 (C-9): sc-13117. Western blot analysis of neuropilin expression in SK-N-SH(A) and HUV-EC-C(B) whole cell lysates.

neuropilin-2 (C-9): sc-13117. Immunoperoxidase staining of formalin fixed, paraffin-embedded human skin tissue showing cytoplasmic staining of epidermal cells.

**RESEARCH USE**

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