



Recombinant Protein Technical Manual

Recombinant Human Neuropilin-2/NRP2 Protein (Fc Tag)(Active)

RPES1439

Product Data:

Product SKU: RPES1439

Size: 20µg

Species: Human

Expression host: HEK293 Cells

Uniprot: NP_003863.2

Protein Information:

Molecular Mass: 120.7 kDa

AP Molecular Mass: 11929 kDa

Tag: C-Fc

Bio-activity: Measured by its binding ability in a functional ELISA.2. Immobilized human VEGFC-His at 10µg/mL (100µL/well) can bind human NRP2-Fc, the EC50 of human NRP2-Fc is 0.1-0.5µg/mL.

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from sterile PBS, pH 7.4

Reconstitution: Please refer to the printed manual for detailed information.

Application: Functional ELISA

Synonyms: Neuropilin-2;NP2;NPN2;PRO2714;VEGF165R2

Immunogen Information:

Sequence: Met 1-Tyr855

Background:

Neuropilin-2 (NRP-2) which is related to NRP, is a type I? transmembrane glycoprotein and has the structure characteristic with five main extracellular domains: two complement binding (CUB) domains, two coagulation factor V/VIII homology domains, and a MAM (meprin, tyrosine phosphatase domain) region. NRP-2 is a receptor capable of binding two disparate ligands, class III semaphorins (SEMA) and vascular endothelial growth factors (VEGF), and thus regulates two diverse systems by activating cellular signaling pathways via interacting with other cell surface receptors such as VEGF receptors and plexins. NRP-2 is well known for its role in facilitating axonal guidance during the development of the neuronal system, and additionally, it is also expressed in vascular endothelial cells and lymphatic endothelium where it affects proliferation, migration, angiogenesis, as well as formation of small lymphatic vessels and capillaries. Recent study has identified NRP-2 as a polysialylated protein expressed in human dendritic cells and modulates DC-T cell Interactions. Nearly all tumor cells express neuropilins and NRP-2 is predominantly expressed in neuronal tumors and melanomas. Furthermore, it is suggested that as the specific ligand for NRP-2, SEMA 3F inhibits tumor angiogenesis and metastasis.