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Datasheet for ABIN7317794
NRP2 Protein (Fc Tag)

Overview

Quantity:	50 µg
Target:	NRP2
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This NRP2 protein is labelled with Fc Tag.

Product Details

Purpose:	Recombinant Human Neuropilin-2/NRP2 Protein (Fc Tag)(Active)
Sequence:	Met 1-Tyr855
Characteristics:	A DNA sequence encoding the human NRP2 (NP_003863.2)(Met1-Tyr855) was expressed with the Fc region of human IgG1 at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	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.

Target Details

Target:	NRP2
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Target Details

Alternative Name: Neuropilin-2/NRP2 ([NRP2 Products](#))

Background: Neuropilin-2 (NRP-2) which is related to NRP-1, 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, classIII 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.

Synonym: Neuropilin-2,NP2,NPN2,PRO2714,VEGF165R2

Molecular Weight: 120.7 kDa

NCBI Accession: [NP_003863](#)

Pathways: [Signaling Events mediated by VEGFR1 and VEGFR2](#), [VEGFR1 Specific Signals](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

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

Buffer: Lyophilized from sterile PBS, pH 7.4

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, 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.