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Datasheet for ABIN7317136  
**NRP2 Protein (His tag)**

1 Image

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 His tag.

Product Details

Purpose:	Recombinant Human Neuropilin-2/NRP2 Protein (His Tag)(Active)
Sequence:	Met 1-Tyr 855
Characteristics:	A DNA sequence encoding the extracellular domain (Met 1-Tyr 855) of human Neuropilin2 isoform 2 (NP_003863.2) was expressed with a C-terminal polyhistidine tag.
Purity:	> 97 % 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.

Target Details

Target:	NRP2
Alternative Name:	Neuropilin-2/NRP2 ( <a href="#">NRP2 Products</a> )

## Target Details

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**Background:** 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

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**Molecular Weight:** 95 kDa

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**NCBI Accession:** [NP\\_003863](#)

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

## Application Details

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**Restrictions:** For Research Use only

## Handling

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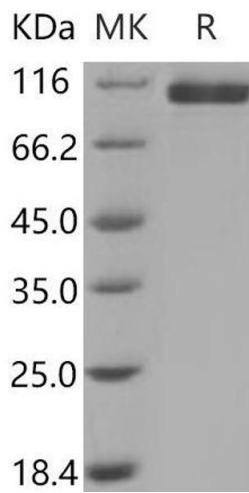
**Format:** Lyophilized

**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.



### Western Blotting

Image 1.