

Neuropilin-2 Active Protein | NRP2 active protein

Neuropilin-2 Protein, Mouse, Recombinant (His Tag)

CATALOG #
AAA258245

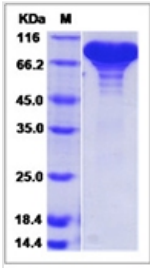
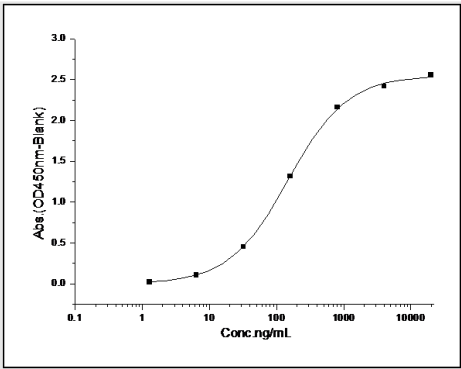
HOST
HEK293 Cells

PRODUCT SYNONYMS

Neuropilin-2; Neuropilin-2 Protein; Mouse; Recombinant (His Tag); Mouse Neuropilin-2/NRP2 Protein (His Tag); 1110048P06Rik Protein; Np-2 Protein; Np2 Protein; Npn-2 Protein; Npn2 Protein; neuropilin 2; NRP2 active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>95% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Sequence	Met1-Pro86 4
Species	Mouse
Endotoxin	<1.0EU per ug protein as determined by the LAL method.
Predicted N Terminal	Arg 21
Tag	C-His
Protein Construction	A DNA sequence encoding the mouse NRP2 (NP_001070871.1)(Met1-Pro864) was expressed with a polyhistidine tag at the C-terminus.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Activity	Measured by its ability to bind rat Fc-VEGFC in functional ELISA.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice.



SDS-PAGE

Application Data
Measured by its ability to bind rat Fc-VEGFC in functional ELISA.

ADDITIONAL INFORMATION

Related Product Information for NRP2 active protein	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, classI 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 the formation of small lymphatic vessels and capillaries. A recent study has identified NRP-2 as a polysialylation 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.
References	Chen H. et al., 1997, Neuron. 19: 547-59. Bielenberg DR. et al., 2006, Exp Cell Res. 312: 584-93. Yuan L. et al., 2002, Development. 129: 4797-806. Benoit F. et al., 2006, Blood. 108: 1243-50. Sabrina C. et al., 2007, J Biol Chem. 282: 30346-56. Gray MJ. et al., 2008, J Natl Cancer Inst. 100: 109-20.

NCBI AND UNIPROT INFORMATION

NCBI GI #	116686132
NCBI GeneID	18187
NCBI Accession #	NP_001070871.1
NCBI GenBank Nucleotide #	NM_001077403.1
UniProt Accession #	O35375; O35373; O35374; O35376; O35377; O35378; B1AT44
Molecular Weight	104,631 Da
NCBI Official Full Name	neuropilin-2 isoform 1
NCBI Official Synonym Full Names	neuropilin 2
NCBI Official Symbol	Nrp2
NCBI Official Synonym Symbols	Np2; Np-2; Npn2; Npn-2; 1110048P06Rik
NCBI Protein Information	neuropilin-2; vascular endothelial cell growth factor 165 receptor 2
UniProt Protein Name	Neuropilin-2
UniProt Gene Name	Nrp2
UniProt Entry Name	NRP2_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/hek293-nrp2-active-protein/neuropilin-2/258245>