

Neuropilin-1 Active Protein

Human Neuropilin-1 Protein (ECD, His Tag)

CATALOG #
AAA258582

HOST
HEK293 Cells

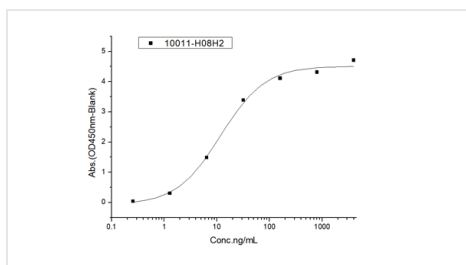
PRODUCT SYNONYMS

Neuropilin-1; Human Neuropilin-1 Protein (ECD; His Tag); BDCA4 Protein; Human; CD304 Protein; Neuropilin-1 Protein; NP1 Protein; NRP Protein; VEGF165R Protein; Neuropilin-1 active protein

PRODUCT SPECIFICATIONS

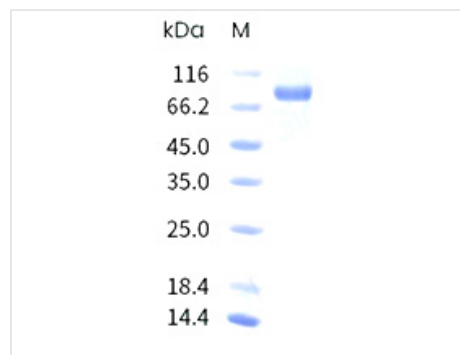
Host	HEK293 Cells
Purity/Purification	>95% as determined by SDS-PAGE.
Form/Format	Lyophilized from sterile PBS, pH 7.4.
Sequence	Met1-Lys64 4
Species	Human
Endotoxin	<1.0EU per ug protein as determined by the LAL method.
Tag	C-His
Predicted N Terminal	Phe 22
Protein Construction	A DNA sequence encoding the human NRP1 (NP_001019799.2)(Met1-Lys644) was expressed with a polyhistidine tag at the C-terminus.
Activity	Immobilized Recombinant Human/Cynomolgus VEGF/VEGFA/VEGF165 Protein at 2 ug/mL (100 uL/well) can bind Recombinant Human Neuropilin-1 Protein (ECD, His Tag), the EC50 is 6-18 ng/mL.
Preparation and Storage	Store it under sterile conditions at -20 to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

IMAGES



Application Data

Immobilized Recombinant Human/Cynomolgus VEGF/VEGFA/VEGF165 Protein (Cat:11066-HNAH) at 2 ug/mL (100 uL/well) can bind Recombinant Human Neuropilin-1 Protein (ECD, His Tag) (Cat:AAA258582), the EC50 is 6-18 ng/mL.



Application Data

ADDITIONAL INFORMATION

Related Product Information for Neuropilin-1 active protein	Neuropilin is a type I transmembrane protein and the molecular mass is 120 kDa. Two homologs, Neuropilin-1 and Neuropilin-2, are identified. The primary structure of Neuropilin-1 and Neuropilin-2 is well conserved and is divided into four domains, CUB (a1/a2) domain, FV/FVIII (b1/b2) domain, MAM (c) domain, and (d) domain that contains a transmembrane and a short cytoplasmic region. Neuropilin-1 (NRP1) acts as a receptor for two different extracellular ligands, class 3 semaphorins, and specific isoforms of vascular endothelial growth factor. The functions of NRP1 and NRP2 have been extensively studied in neurons where they act in axon guidance and in endothelial cells where they promote angiogenesis and cell migration. Neuropilin-1 is likely to mediate contacts between the dendritic cells and the T lymphocytes via homotypic interactions and is essential for the initiation of the primary immune response. NRP1 is a co-receptor for VEGF receptor-2 (VEGFR2) that enhances the binding of VEGF165 to VEGFR2 and VEGF165-mediated chemotaxis. NRP1 expression is regulated in EC by tumor necrosis factor-alpha, the transcription factors dHAND and Ets-1, and vascular injury. NRP1 upregulation is positively correlated with the progression of various tumors. Overexpression of NRPI in rat tumor cells results in enlarged tumors and substantially enhanced tumor angiogenesis. On the other hand, soluble NRP1 (sNRP1) is an antagonist of tumor angiogenesis.
Product Categories/Family for Neuropilin-1 active protein	cd antigen; Receptor; Drug Targets; Growth Factor; VEGF Receptor; Antibody Therapy; Cancer

NCBI AND UNIPROT INFORMATION

Molecular Weight	The recombinant human NRP1 consists of 634 amino acids and predicts a molecular mass of 71.33 kDa. It migrates as an approximately 82.01 kDa band in SDS-PAGE under reducing conditions.
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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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/hek293-cells-active-protein/neuropilin-1/258582>