

Netrin-1 Recombinant Protein | NTN1 recombinant protein

Netrin-1 (human), (recombinant)

CATALOG # AAA77037	HOST HEK293 cells	REACTIVITY Human, Mouse, Rat	APPLICATIONS ELISA
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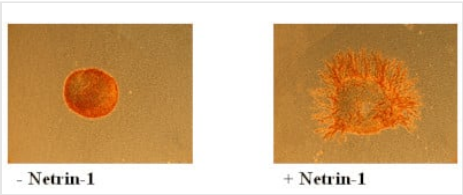
PRODUCT SYNONYMS

Netrin-1; Netrin-1 (human); (recombinant); NTN1 recombinant protein

PRODUCT SPECIFICATIONS

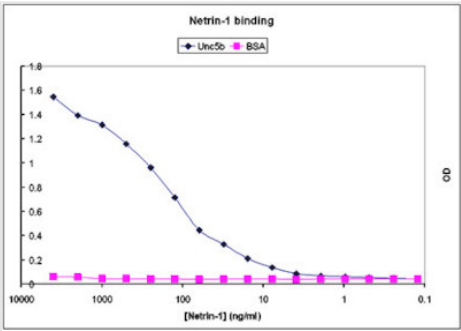
Host	HEK293 cells
Reactivity	Human, Mouse, Rat
Specificity	Tests positive for binding to human Unc5b by ELISA. Previous lots produced from the same cell line bind to human, mouse and rat receptors UNC5H and DCC
Purity/Purification	>=90% (SDS-PAGE) Purified by multi-step chromatography
Form/Format	Lyophilized. Contains PBS
Concentration	0.1mg/ml after reconstitution (varies by lot)
Applicable Applications for NTN1 recombinant protein	ELISA
Source Note	The extracellular domain of human netrin-1 (aa 28-604) is fused at the N-terminus to a DYKDDDDK®-tag.
Reconstitution	Reconstitute with 100µl sterile distilled water. Resuspended protein should be used immediately upon reconstitution to avoid loss in activity due to non-specific binding to the vial. Further dilutions should be made with medium containing 5% fetal calf serum or 0.5% BSA.
Scientific Background	The Netrins (whose name means “one who guides” in Sanskrit) are a family of laminin-related secreted protein. In mice, human and rat, netrin-1, netrin-3/NTL2, Netrin-4 and G-Netrins have been cloned. Netrin-1 is predominantly expressed by floor plate cells as commissural axons extend toward the ventral midline. Netrin-1 induces axonal outgrowth, axon orientation and neuronal migration in neuronal development. It is chemoattractive for some neurons and chemorepellent for others. To carry its functions, netrin-1 interacts with specific receptors: DCC/Neogenin and UNC-5. These receptors belong to the family of “dependence receptors” that induce apoptosis in the absence of their respective ligand, and promote survival when bound to their ligand. The Netrin-1 mediated survival signal inhibits p53-induced apoptosis. Netrin-1 is also expressed in organs such as pancreas, lung, bowel, bone and mammary gland. In these tissues, netrin-1 has different roles such as invasion of epithelial cells, leukocytes migration, cell adhesion or angiogenesis. Netrin-1, as a survival factor, also contributes to the control of tumorigenesis. Historical results have shown that netrin-1 induces axon outgrowth and inhibits DCC- and UNC5H2-mediated apoptosis in HEK 293 cells.
Preparation and Storage	Ships on Blue Ice Long Term Storage: -20°C Stable for at least 6 months after receipt when stored at -20°C. Avoid freeze/thaw cycles. After reconstitution, prepare aliquots and store at -20°C.

IMAGES



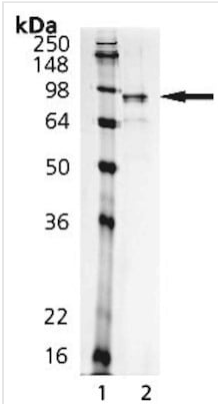
Application Data

Figure: Netrin-1 (human) (rec.) (AAA77037) mediated commissural axon outgrowth. Method: Dorsal spinal cord were dissected out from E13 rat embryos and cultured in collagen matrix in the presence or absence of Netrin-1 (250 ng/ml). Axons were then stained with an anti-β-tubulin antibody. Picture courtesy of Véronique Corset, Centre Léon Bérard, Lyon.



ELISA

ELISA analysis of Netrin-1 (human), (recombinant): Each well is coated with either 500ng Unc5b (Please inquire) or 2% BSA. Netrin-1 is titrated in 2-fold series and detected by anti-DYKDDDDK antibody.



SDS-PAGE

SDS-PAGE analysis of Netrin-1 (human), (recombinant): Lane 1: MW Marker, Lane 2: 1ug Netrin-1.

ADDITIONAL INFORMATION

Product Categories/Family for NTN1 recombinant protein	Cellular Analysis; Cell Signaling
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NCBI AND UNIPROT INFORMATION

NCBI GI #	148613884
NCBI GeneID	9423
NCBI Accession #	NP_004813.2
NCBI GenBank Nucleotide #	NM_004822.2
UniProt Accession #	O95631; E9KL51
Molecular Weight	~85 kDa
NCBI Official Full Name	netrin-1
NCBI Official Synonym Full Names	netrin 1
NCBI Official Symbol	NTN1
NCBI Official Synonym Symbols	NTN1L
NCBI Protein Information	netrin-1; netrin 1, mouse, homolog of; epididymis tissue protein Li 131P

UniProt Protein Name	Netrin-1
UniProt Gene Name	NTN1
UniProt Synonym Gene Names	NTN1L
UniProt Entry Name	NET1_HUMAN

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/ntn1-recombinant-protein-hek293-elisa/77037>