

Netrin 1 (Ntn1) Active Protein | Ntn1 active protein

Active Netrin 1 (Ntn1)

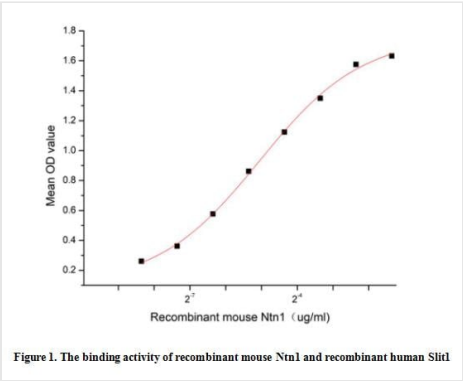
CATALOG # AAA161863	HOST E Coli	APPLICATIONS Activity Assay, Cell Culture
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PRODUCT SYNONYMS

Netrin 1 (Ntn1); Active Netrin 1 (Ntn1); Netrin 1; NTN1L; Epididymis tissue protein Li 131P4; Ntn1 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 90% by SDS-PAGE
Form/Format	Freeze-dried powder; PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Sequence	Pro313~Pro 565
Applicable Applications for Ntn1 active protein	Activity Assay, Cell Culture
Species	Mouse
Expression System	Prokaryotic expression
Tag	N-terminal His and GST Tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method)
Isoelectric Point	9
Research Area	Neuro science
Preparation and Storage	Store at 2-8 degree C for one month, -80 degree C for 12 months

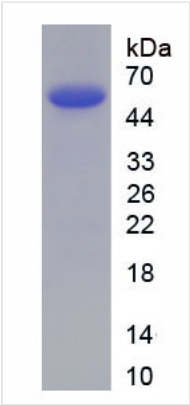


Bioactivity

Netrin 1 (Ntn1) is included in a family of laminin-related secreted proteins. Mouse Ntn1 is a 66-76 kDa glycoprotein that is well known for its involvement in axonal guidance during embryonic development and as an enhancer of cancer cell metastasis. Ntn1 is also involved in outgrowth and migration orientation in the developing CNS and plays a significant role in the morphogenesis of endothelial cells and vascular smooth-muscle cells. It is also involved in the processes of cytoskeleton reorganization, angiogenesis, epithelial cell adhesion, and cell migration in the lungs, mammary gland, and pancreas. Slit Homolog 1 (Slit1) can acts as a potent promoter of both Netrin-1 attractive and repulsive activities on distinct neuronal cell types, thereby opening novel perspectives on the role of combinations of cues in brain wiring. Thus a functional binding ELISA assay was conducted to detect the interaction of recombinant mouse Ntn1 and recombinant human Slit1. Briefly, Ntn1 was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 ul were then transferred to Slit1-coated microtiter wells and incubated for 1h at 37 degree C. Wells were washed with PBST and incubated for 1h with anti-Ntn1 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody for 1h at 37 degree C, wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37 degree C. Finally, add 50 uL stop solution to the wells and read at 450/630 nm immediately. The binding activity of recombinant mouse Ntn1 and recombinant human Slit1 was shown in Figure 1, the EC50 for this effect is 0.03 ug/mL.

SDS-PAGE

Figure. SDS-PAGE



ADDITIONAL INFORMATION

Product Categories/Family for Ntn1 active protein	Active proteins
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NCBI AND UNIPROT INFORMATION

NCBI GI #	112363094
NCBI GeneID	18208
NCBI Accession #	NP_032770.2
NCBI GenBank Nucleotide #	NM_008744.2
UniProt Accession #	O09118; Q60832; Q9QY50; B1ARR0
Molecular Weight	67,810 Da
NCBI Official Full Name	netrin-1
NCBI Official Synonym Full Names	netrin 1
NCBI Official Symbol	Ntn1
NCBI Official Synonym Symbols	AI561871; BC019633; Netrin-1
NCBI Protein Information	netrin-1
UniProt Protein Name	Netrin-1
UniProt Gene Name	Ntn1

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://stage.aaabiotech.com/e-coli-active-protein/netrin-1-ntn1/161863>