

Recombinant Mouse Ntn1 protein, His-tagged

Cat. No. Ntn1-1854M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Ntn1 protein(Pro313~Pro565), fused with N-terminal His tag and GST tag, was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	Pro313~Pro565
Tag	N-His-GST
Form	PBS, pH7.4, containing 0.01% SKL, 5%Trehalose.
Bio-activity	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

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serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to Slit1-coated microtiter well and incubated for 1h at 37°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°C, wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50 µL stop solution to the wells and read at 450/630 nm immediately. The EC50 for this effect is 0.03 ug/mL.

Molecular Mass	58.5kDa
Endotoxin	<1.0EU per 1µg (determined by the LAL method)
Purity	>90%
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	Ntn1 netrin 1 [<i>Mus musculus</i>]
Official Symbol	Ntn1
Synonyms	NTN1; netrin 1; netrin-1; AI561871; BC019633; Netrin-1;
Gene ID	18208

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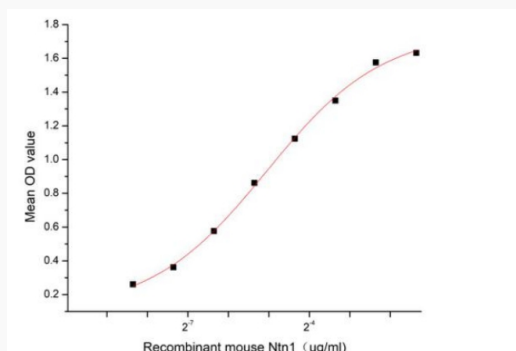
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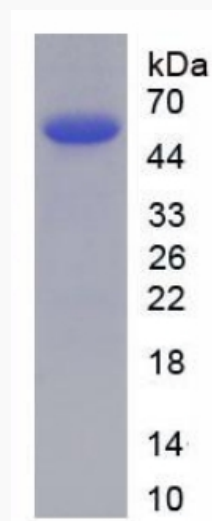
mRNA Refseq NM_008744

Protein Refseq NP_032770

Activity



SDS-PAGE



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