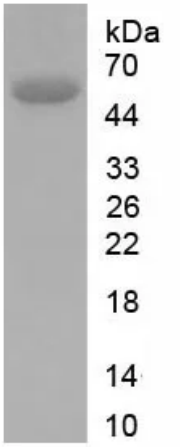
Active Netrin 1 (Ntn1)

Catalog#:PEM12750

概述（Summary）

别称（Alternative Names）	NTN1L; Epididymis tissue protein Li 131P
纯度（Purity）	Greater than 90% as determined by reducing SDS-PAGE.
内毒素（Endotoxin level）	Please contact with the lab for this information
蛋白构建（Construction）	【Pro313-Pro565】
Accession #	O09118
表达宿主（Host）	E.coli
种属（Species）	Mus musculus (Mouse)
预测分子量（Predicted MW）	58.5 kDa
制剂（Form）	Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
运输方式（Shipping）	The product is shipped with ice bag. Upon receipt, store it immediately at the temperature listed below.
稳定性&储存（Stability &Storage）	12 months at -20°C to -80°C in lyophilized state.6 months at -20°C to -80°C under sterile conditions after reconstitution.7-10 days at 2°C to 8°C under sterile conditions after reconstitution.Please minimize freeze-thaw cycles.
复溶（Reconstitution）	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
背景介绍（References）	Netrins control guidance of CNS commissural axons and peripheral motor axons. Its association with either DCC or some UNC5 receptors will lead to axon attraction or repulsion, respectively. Binding to UNC5C might cause dissociation of UNC5C from polymerized TUBB3 in microtubules and thereby lead to increased microtubule dynamics and axon repulsion. Involved in dorsal root ganglion axon projection towards the spinal cord. It also serves as a survival factor via its association with its receptors which prevent the initiation of apoptosis. Involved in colorectal tumorigenesis by regulating apoptosis.

电泳图（SDS-PAGE image）



Greater than 90% as determined by reducing SDS-PAGE.

活性图（Bioactivity image）

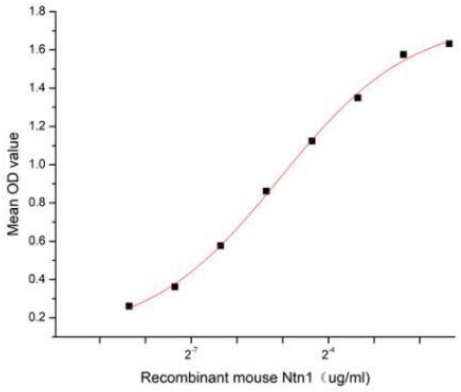


Figure 1. The binding activity of recombinant mouse Ntn1 and recombinant human Slit1

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 µl were then transferred to Slit1-coated microtiter wells and incubated for 1h at 37℃. 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℃, wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37℃. Finally, add 50 µL 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.

注意事项（Note）

For Research Use Only , Not for Diagnostic Use.