

Datasheet for ABIN3044248
anti-Netrin 1 antibody (N-Term)



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Overview

Quantity:	100 µg
Target:	Netrin 1 (NTN1)
Binding Specificity:	AA 32-51, N-Term
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Netrin 1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Netrin-1(NTN1) detection. Tested with WB in Human,Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence at the N-terminus of human Netrin 1(32-51aa AGQAAQPDPCSDENGHPRRC), identical to the related rat and mouse sequences.
Sequence:	AGQAAQPDPC SDENGHPRRC
Isotype:	IgG
Cross-Reactivity (Details):	Predicted Cross Reactivity: mouse No cross reactivity with other proteins. Predicted Cross Reactivity: Species predicted to be fit for the product based on sequence similarities.
Characteristics:	Rabbit IgG polyclonal antibody for Netrin-1(NTN1) detection. Tested with WB in

Product Details

Human,Mouse,Rat.

Gene Name: netrin 1

Protein Name: Netrin-1

Purification: Immunogen affinity purified.

Target Details

Target: Netrin 1 (NTN1)

Alternative Name: NTN1 ([NTN1 Products](#))

Background: Netrin-1(NTN1), also known as NTN1L, is a diffusible protein made by floor plate cells. Netrin-1 is found in the floor plate and neuroepithelial cells of the ventral region of the spinal cord, as well as other locations in the nervous system including the somatic mesoderm, pancreas and cardiac muscle. The human NTN1 gene is mapped to chromosome 17p13-p12 by FISH. Netrin-1 can attract spinal commissural axons and repel trochlear axons in vitro. And netrin-1 expression confers a selective advantage for tumor cell survival. The binding of netrin-1 to DCC appears to depend on the presence of a coreceptor or accessory proteins. Adenosine A2b receptor is actually a netrin-1 receptor and induces cAMP accumulation on binding netrin-1, and that netrin-1-dependent outgrowth of dorsal spinal cord axons directly involves A2b. Netrin-1 can promote intestinal tumor development, probably by regulating cell survival. Thus, a netrin-1 receptor or receptors function as conditional tumor suppressors. Expression of Unc5b triggered endothelial cell repulsion in response to netrin-1 in vitro, whereas a truncated Unc5b lacking the intracellular signaling domain failed to induce repulsion.

Synonyms: NET1_HUMAN antibody|Netrin 1, mouse, homolog of antibody|Netrin 1-like antibody|Netrin-1 antibody|Netrin1 antibody|Ntn 1 antibody|NTN 1L antibody|Ntn1 antibody|NTN1L antibody|Unc6 antibody

UniProt: [O95631](#)

Pathways: [Regulation of Cell Size](#)

Application Details

Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Rat, Predicted Species: Mouse
Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities.
Other applications have not been tested. Optimal dilutions should be determined by end users.

Application Details

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB.

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na₂HPO₄, 0.05 mg Thimerosal, 0.05 mg Sodium azide.

Preservative: Thimerosal (Merthiolate), Sodium azide

Precaution of Use: This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C/-20 °C

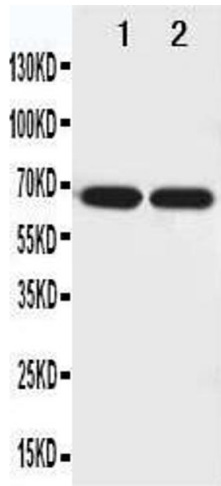
Storage Comment: At -20°C for one year. After reconstitution, at 4°C for one month.
It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Expiry Date: 12 months

Publications

Product cited in: Qian-hua, Shao-ping, Jian-wen, Yun, Li: "Reduced expression of netrin-1 is associated with fetal growth restriction." in: **Molecular and cellular biochemistry**, Vol. 350, Issue 1-2, pp. 81-7, (2011) ([PubMed](#)).

Zhong, Zou, Zhao, Hu, Xie: "Effect of different concentrations of neogenin on proliferation, apoptosis and related proliferative factors in human trophoblasts." in: **Journal of Huazhong University of Science and Technology. Medical sciences = Hua zhong ke ji da xue xue bao. Yi xue Ying De wen ban = Huazhong keji daxue xuebao. Yixue Yingdewen ban**, Vol. 30, Issue 4, pp. 500-4, (2010) ([PubMed](#)).



Western Blotting

Image 1. Anti-Netrin 1 antibody, Western blotting Lane 1: U87 Cell Lysate Lane 2: COLO320 Cell Lysate