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Goat Anti-Neurexin 1 Antibody
Peptide-affinity purified goat antibody
Catalog # AF1720a

Specification

Goat Anti-Neurexin 1 Antibody - Product Information

Application	**WB, E**
Primary Accession	P58400
Other Accession	NP_620072, 9378, 18189 (mouse), 60391 (rat)
Reactivity	**Human**
Predicted	**Mouse, Rat, Dog**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**100ug/200ul**
Isotype	**IgG**
Calculated MW	**50424**

Goat Anti-Neurexin 1 Antibody - Additional Information

Gene ID 9378

Other Names
Neurexin-1-beta, Neurexin I-beta, NRXN1

Dilution
WB~~1:1000
E~~N/A

Format
0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Goat Anti-Neurexin 1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-Neurexin 1 Antibody - Protein Information

Name NRXN1 (HGNC:8008)

Function
Neuronal cell surface protein involved in cell recognition and cell adhesion by forming intracellular junctions through binding to neuroligins (By similarity). Plays a role in formation of synaptic

junctions (By similarity). Functions as part of a trans-synaptic complex by binding to cerebellins and postsynaptic GRID1. This interaction helps regulate the activity of NMDA and AMPA receptors at hippocampal synapses without affecting synapse formation. NRXN1B-CBLN2- GRID1 complex transduce presynaptic signals into postsynaptic NMDAR response (By similarity).

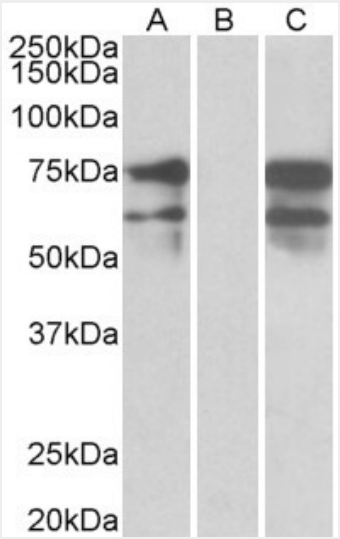
Cellular Location
Presynaptic cell membrane {ECO:0000250|UniProtKB:P0DI97}; Single-pass type I membrane protein

Goat Anti-Neurexin 1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Goat Anti-Neurexin 1 Antibody - Images



HEK293 lysate (10ug protein in RIPA buffer) overexpressing Human NRXN1 with DYKDDDDK tag probed with AF1720a(0.5ug/ml) in Lane A and probed with anti- DYKDDDDK Tag (1/3000) in lane C. Mock-transfected HEK293 probed with AF1720a(1mg/ml) in Lane B. Primary incubations were for 1 hour. Detected by chemiluminescence.

Goat Anti-Neurexin 1 Antibody - Background

Neurexins function in the vertebrate nervous system as cell adhesion molecules and receptors. Two neurexin genes are among the largest known in human (NRXN1 and NRXN3). By using alternate promoters, splice sites and exons, predictions of hundreds or even thousands of distinct mRNAs have been made. Most transcripts use the upstream promoter and encode alpha-neurexin isoforms; fewer transcripts are produced from the downstream promoter and encode beta-neurexin isoforms. Alpha-neurexins contain epidermal growth factor-like (EGF-like) sequences and laminin G

domains, and they interact with neurexophilins. Beta-neurexins lack EGF-like sequences and contain fewer laminin G domains than alpha-neurexins. The RefSeq Project has decided to create only a few representative transcript variants of the multitude that are possible.

Goat Anti-Neurexin 1 Antibody - References

Structural insights into the exquisite selectivity of neurexin/neuroligin synaptic interactions. Leone P, et al. EMBO J, 2010 Jul 21. PMID 20543817.
Deletions of NRXN1 (neurexin-1) predispose to a wide spectrum of developmental disorders. Ching MS, et al. Am J Med Genet B Neuropsychiatr Genet, 2010 Jun 5. PMID 20468056.
TCF4, schizophrenia, and Pitt-Hopkins Syndrome. Blake DJ, et al. Schizophr Bull, 2010 May. PMID 20421335.
Association between neurexin 1 (NRXN1) polymorphisms and the smoking behavior of elderly Japanese. Sato N, et al. Psychiatr Genet, 2010 Jun. PMID 20414139.
Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype score. Rose JE, et al. Mol Med, 2010 Jul-Aug. PMID 20379614.