

Goat Anti-Neuroligin 3 Antibody

Peptide-affinity purified goat antibody Catalog # AF1724a

Specification

Goat Anti-Neuroligin 3 Antibody - Product Information

Application WB, E
Primary Accession Q9NZ94

Other Accession NP 061850, 54413

Reactivity Human

Predicted Mouse, Rat, Dog

Host Goat
Clonality Polyclonal
Concentration 0.5mg/ml
Isotype IgG
Calculated MW 93895

Goat Anti-Neuroligin 3 Antibody - Additional Information

Gene ID 54413

Other Names

Neuroligin-3, Gliotactin homolog, NLGN3, KIAA1480, NL3

Dilution

WB~~1:1000

 $E \sim N/A$

Format

0.5~mg lgG/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-Neuroligin 3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-Neuroligin 3 Antibody - Protein Information

Name NLGN3

Synonyms KIAA1480, NL3

Function



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Cell surface protein involved in cell-cell-interactions via its interactions with neurexin family members. Plays a role in synapse function and synaptic signal transmission, and may mediate its effects by clustering other synaptic proteins. May promote the initial formation of synapses, but is not essential for this. May also play a role in glia-glia or glia-neuron interactions in the developing peripheral nervous system (By similarity).

Cellular Location

Cell membrane; Single-pass type I membrane protein. Synapse. Note=Detected at both glutamatergic and GABAergic synapses.

Tissue Location

Expressed in the blood vessel walls (at protein level). Detected in throughout the brain and in spinal cord. Detected in brain, and at lower levels in pancreas islet beta cells

Goat Anti-Neuroligin 3 Antibody - Protocols

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

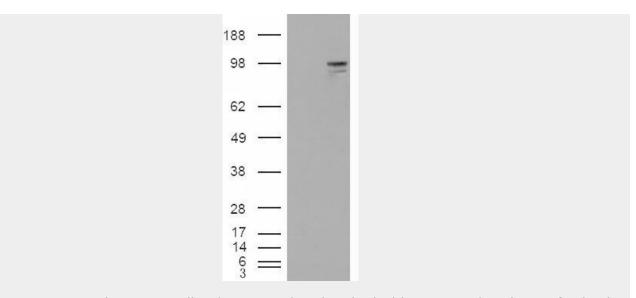
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

Goat Anti-Neuroligin 3 Antibody - Images



AF1724a (0.1 μg/ml) staining of Human Brain (Amygdala) lysate (35 μg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.





HEK293 overexpressing Neuregulin3 (RC207955) and probed with AF1724a (mock transfection in first lane), tested by Origene.

Goat Anti-Neuroligin 3 Antibody - Background

This gene encodes a member of a family of neuronal cell surface proteins. Members of this family may act as splice site-specific ligands for beta-neurexins and may be involved in the formation and remodeling of central nervous system synapses. Mutations in this gene may be associated with autism and Asperger syndrome. Multiple transcript variants encoding distinct isoforms have been identified for this gene.

Goat Anti-Neuroligin 3 Antibody - References

Characterization of the neuroligin gene family expression and evolution in zebrafish. Rissone A, et al. Dev Dyn, 2010 Feb. PMID 20034102.

A substitution involving the NLGN4 gene associated with autistic behavior in the Greek population. Pampanos A, et al. Genet Test Mol Biomarkers, 2009 Oct. PMID 19645625.

Altered synchrony and connectivity in neuronal networks expressing an autism-related mutation of neuroligin 3. Gutierrez RC, et al. Neuroscience, 2009 Aug 4. PMID 19406211.

A common variant in DRD3 receptor is associated with autism spectrum disorder. de Krom M, et al. Biol Psychiatry, 2009 Apr 1. PMID 19058789.

Analysis of the neuroligin 4Y gene in patients with autism. Yan J, et al. Psychiatr Genet, 2008 Aug. PMID 18628683.