

Goat Anti-Neuroigin 3 Antibody
Peptide-affinity purified goat antibody
Catalog # AF1724a**Specification**

Goat Anti-Neuroigin 3 Antibody - Product Information

Application	WB
Primary Accession	O9NZ94
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-Neuroigin 3 Antibody - Additional Information**Gene ID** 54413**Other Names**

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

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-Neuroigin 3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-Neuroigin 3 Antibody - Protein Information**Name** NLGN3**Synonyms** KIAA1480, NL3**Function**

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-Neurologin 3 Antibody - Protocols

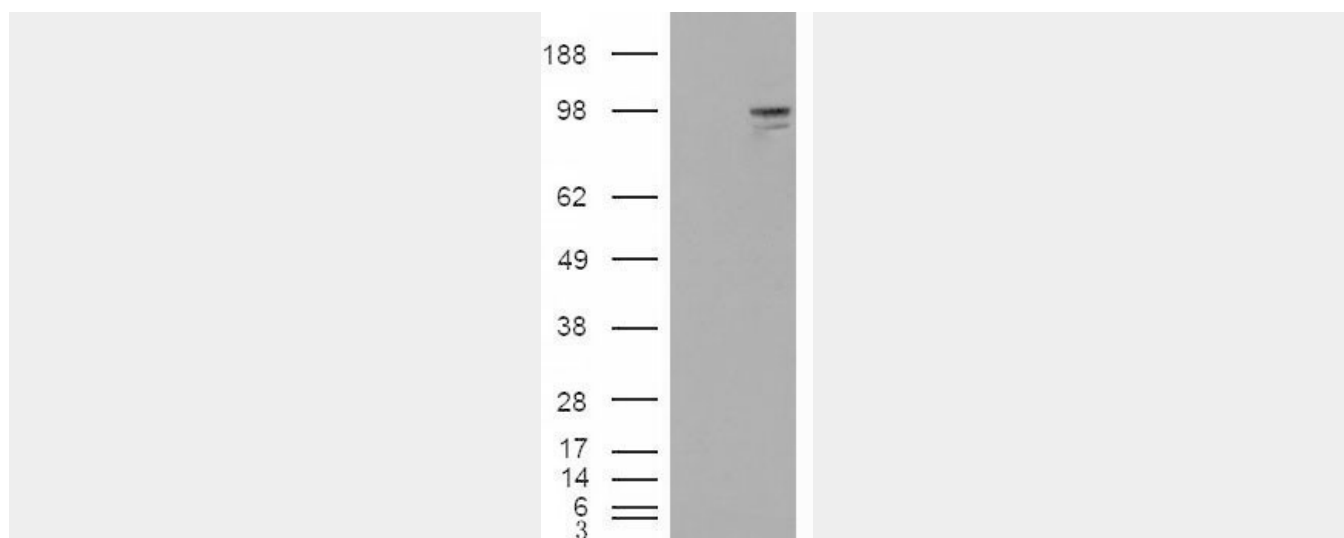
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Goat Anti-Neurologin 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-Neuroigin 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-Neuroigin 3 Antibody - References

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