

Product datasheet for TA328901

Froduct datasireet for TA32090

Nlgn1 Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: IHC, WB

Recommended Dilution: WB: 1:200-1:2000; IHC: 1:100-1:3000

Reactivity: Mouse, Rat

Host: Rabbit

Clonality: Polyclonal

Immunogen: Peptide (C)KVPSTDITLRPTRK, corresponding to amino acid residues 648-661 of rat Neuroligin

1 (). Extracellular, N-terminus.

Formulation: Lyophilized. Concentration before lyophilization ~0.8mg/ml (lot dependent, please refer to

CoA along with shipment for actual concentration). Buffer before lyophilization: phosphate

buffered saline (PBS), pH 7.4, 1% BSA, 0.05% NaN3.

Reconstitution Method: Add 50 ul double distilled water (DDW) to the lyophilized powder.

Purification: Affinity purified on immobilized antigen.

Conjugation: Unconjugated

Storage: Store at -20°C as received.

Stability: Stable for 12 months from date of receipt.

Gene Name: neuroligin 1

Database Link: NP 446320

Entrez Gene 192167 MouseEntrez Gene 116647 Rat

Q62765



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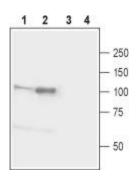
Background:

The NLGN1 gene encodes a member of a family of neuronal cell surface proteins. Neuroligins act as ligands for Ã?-Neurexins, cell adhesion proteins located presynaptically. Neuroligin and Ã?-neurexin "shake hands," resulting in the connection between the two neurons and the production of a synapse. Neuroligin 1 may be involved in the formation and remodeling of central nervous system synapses.Proteins of this family may also mediate signaling by recruiting and stabilizing key synaptic components. This is done by interacting with other postsynaptic proteins to localize neurotransmitter receptors and channels in the postsynaptic density as the cell matures.Mutations in the Neuroligin genes are implicated in autism and other cognitive disorders.Neuroligins have been found to play a role in angiogenesis, specifically in human pheripheral tissues.Neuroligins bind with the help of Ca2+ to the aneurexin LNS (laminin, neurexin and sex hormone-binding globulin-like folding units) domains and to the Ã?-neurexin LNS domain which then establishes a heterophilic transsynaptic recognition code4. This binding results in a heterotetramer made up of a Neuroligin-1 dimer and two Neurexin-1 Ã? monomers.

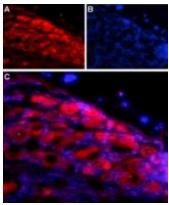
Synonyms:

KIAA1070; MGC45115; NL1; OTTHUMP00000211275; OTTHUMP00000211276

Product images:



Western blot analysis of mouse brain (lanes 1 and 3) and rat brain lysates (lanes 2 and 4): 1, 2. Anti-Neuroligin 1 (extracellular) antibody, (1:800). 3, 4. Anti-Neuroligin 1 (extracellular) antibody preincubated with the control peptide antigen.



Expression of Neuroligin 1 in rat DRG. Immunohistochemical staining of adult rat dorsal root ganglion (DRG) using Anti-Neuroligin 1 (extracellular) antibody followed by anti-rabbit-AlexaFluor-594 secondary antibody. A. Neuroligin 1 labeling (red) appears in the cell bodies of the DRG neurons. B. Nuclear staining using DAPI as the counter stain (blue). C. Merged image of A and B.