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Neuroligin 3 Rabbit pAb

Catalog # AP97832

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q9NZ94
Other Accession	Q9NZ94
Reactivity	Mouse
Predicted	Rat, Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	93895
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Neuroligin 3
Epitope Specificity	601-700/848
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the type-B carboxylesterase/lipase family.
SUBUNIT	Interacts with NRXN1, NRXN2 and NRXN3. Interacts (via its C-terminus) with DLG4/PSD-95 (via PDZ domain 3). Homodimer, and heterodimer with NLGN1 and NLGN2.
DISEASE	Defects in NLGN3 may be the cause of susceptibility to autism X-linked type 1 (AUTSX1) [MIM:300425]. AUTSX1 is a pervasive developmental disorder (PDD), prototypically characterized by impairments in reciprocal social interaction and communication, restricted and stereotyped patterns of interests and activities, and the presence of developmental abnormalities by 3 years of age. Defects in NLGN3 may be the cause of susceptibility to X-linked Asperger syndrome 1 (ASPGX1) [MIM:300494]. ASPGX1 is considered to be a form of childhood autism.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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. [provided by RefSeq, Oct 2009].

Additional Information

Gene ID	54413
Other Names	HNL3; A230085M13Rik; NL3; NLG3; NLGN3_HUMAN; NLGN3; Gliotactin homolog; KIAA1480; NLGN3_MOUSE; NLGN3_RAT; neuroligin 3

Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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 {ECO:0000250|UniProtKB:Q8BYM5}; Single-pass type I membrane protein. Synapse {ECO:0000250|UniProtKB:Q8BYM5}. Cell projection, dendrite {ECO:0000250|UniProtKB:Q8BYM5}. Note=Detected at both glutamatergic and GABAergic synapses. Localizes to dendritic membrane {ECO:0000250|UniProtKB:Q8BYM5}
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

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