

NLGN2 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP16943b**Specification**

NLGN2 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [Q8NFZ4](#)**NLGN2 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 57555**Other Names**

Neuroligin-2, NLGN2, KIAA1366

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

NLGN2 Antibody (C-term) Blocking Peptide - Protein Information**Name** NLGN2**Synonyms** KIAA1366**Function**

Transmembrane scaffolding protein involved in cell-cell interactions via its interactions with neuroligin family members. Mediates cell-cell interactions both in neurons and in other types of cells, such as Langerhans beta cells. Plays a role in synapse function and synaptic signal transmission, especially via gamma-aminobutyric acid receptors (GABA(A) receptors). Functions by recruiting and clustering synaptic proteins. Promotes clustering of postsynaptic GABRG2 and GPHN. Promotes clustering of postsynaptic LHFPL4 (By similarity). Modulates signaling by inhibitory synapses, and thereby plays a role in controlling the ratio of signaling by excitatory and inhibitory synapses and information processing. Required for normal signal amplitude from inhibitory synapses, but is not essential for normal signal frequency. May promote the initial formation of synapses, but is not essential for this. In vitro, triggers the de novo formation of presynaptic structures. Mediates cell-cell interactions between Langerhans beta cells and modulates insulin secretion (By similarity).

Cellular Location

Cell membrane; Single-pass type I membrane protein. Postsynaptic cell membrane. Presynaptic cell membrane. Note=Detected at postsynaptic membranes in brain. Detected at dendritic spines

in cultured neurons. Colocalizes with GPHN and ARHGEF9 at neuronal cell membranes (By similarity). Localized at presynaptic membranes in retina. Colocalizes with GABRG2 at inhibitory synapses in the retina (By similarity).

Tissue Location

Expressed in the blood vessel walls. Detected in colon, brain and pancreas islets of Langerhans (at protein level) Detected in brain, and at lower levels in pancreas islet beta cells

NLGN2 Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

NLGN2 Antibody (C-term) Blocking Peptide - Images**NLGN2 Antibody (C-term) Blocking Peptide - 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.

NLGN2 Antibody (C-term) Blocking Peptide - References

Gratacos, M., et al. Am. J. Med. Genet. B Neuropsychiatr. Genet. 150B (6), 808-816 (2009) ;Jamain, S., et al. Nat. Genet. 34(1):27-29(2003) Cantallops, I., et al. Curr. Biol. 10 (17), R620-R623 (2000) ;Scheiffele, P., et al. Cell 101(6):657-669(2000) Philibert, R.A., et al. Gene 246 (1-2), 303-310 (2000) :