

### NLGN2 / Neuroligin 2 Antibody (Internal)

Goat Polyclonal Antibody Catalog # ALS16076

### **Specification**

# NLGN2 / Neuroligin 2 Antibody (Internal) - Product Information

Application
Primary Accession
Reactivity
Host
Clonality
Calculated MW

IHC, WB
O8NFZ4
Human, Monkey
Goat
Polyclonal
91kDa KDa

### NLGN2 / Neuroligin 2 Antibody (Internal) - Additional Information

Gene ID 57555

Other Names Neuroligin-2, NLGN2, KIAA1366

Target/Specificity Human NLGN2.

**Reconstitution & Storage** 

Store at -20°C. Minimize freezing and thawing.

#### **Precautions**

NLGN2 / Neuroligin 2 Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

# NLGN2 / Neuroligin 2 Antibody (Internal) - Protein Information

Name NLGN2

Synonyms KIAA1366

## **Function**

Transmembrane scaffolding protein involved in cell-cell interactions via its interactions with neurexin 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**

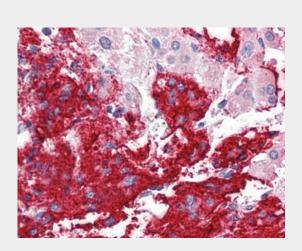
Expressed in the blood vessel walls. Detected in colon, brain and pancreas islets of Langerhans (at protein level) Detected in brain, and at lower levels in pancreas islet beta cells

### NLGN2 / Neuroligin 2 Antibody (Internal) - 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

### NLGN2 / Neuroligin 2 Antibody (Internal) - Images



Anti-NLGN2 / Neuroligin 2 antibody IHC staining of human adrenal.





Antibody (0.1 ug/ml) staining of Human Pancreas lysate (35 ug protein in RIPA buffer).

## NLGN2 / Neuroligin 2 Antibody (Internal) - Background

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### NLGN2 / Neuroligin 2 Antibody (Internal) - References

Jamain S., et al. Nat. Genet. 34:27-29(2003).

Nagase T., et al. DNA Res. 7:65-73(2000).

Irie M., et al. Science 277:1511-1515(1997).

Suckow A.T., et al. Endocrinology 149:6006-6017(2008).

Bottos A., et al. Proc. Natl. Acad. Sci. U.S.A. 106:20782-20787(2009).