Human/Rat Neuroligin 1/NLGN1
Alexa Fluor® 532-conjugated Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF4340X
100 µg

DESCRIPTION

Species Reactivity	Human/Rat
Specificity	Detects recombinant rat Neuroligin 1/NLGN1 in direct ELISAs. Detects human and rat Neuroligin 1/NLGN1 in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant rat Neuroligin 1/NLGN1 Gln46-Leu696 Accession # Q62765
Conjugate	Alexa Fluor 532 Excitation Wavelength: 534 nm Emission Wavelength: 553 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Neuroligin 1 (neurexin ligand 1; also NL1) is a 116 kDa member of the type-B carboxyesterase/lipase family of proteins. It is postsynaptically expressed on neurons and initiates excitatory presynapse maturation through binding to a select isoform of β-neurexin. Mature rat NL1 is 798 amino acids (aa) in length. It is expressed as a type I transmembrane glycoprotein that contains a 652 aa extracellular domain (ECD) (aa 46-697) and a 125 aa cytoplasmic tail. The ECD possesses a nonfunctional esterase homology domain (aa 54-612). Rat NL1 has at least three alternate splice forms. One shows a deletion of aa 165-184 plus aa 298-306, while the remaining two show deletions of either aa 165-184, or aa 298-306, respectively. Rat ECD shares 97% and 93% aa identity with mouse and human NL1 CED, respectively.

PRODUCT SPECIFIC NOTICES

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