

DESCRIPTION

Species Reactivity	Rat
Specificity	Detects rat Neurexin 1β/NXRN1b in direct ELISAs and Western blots. In direct ELISAs, approximately 25% cross-reactivity with recombinant rat Neurexin 1α is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant rat Neurexin 1β/NXRN1b Ala47-Thr392 Accession # Q63373
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 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.

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

Neurexin 1 beta is an 80 kDa member of the Neurexin family of proteins. It is expressed on neuronal presynaptic membranes and contributes to synapse formation through binding to postsynaptic neuroligins. An alternate start site in the Neurexin 1 gene generate an α- (long) and β- (short) isoform. Mature rat Neurexin 1β is a type I transmembrane glycoprotein that is 468 amino acids (aa) in length. It has a 346 aa extracellular region (aa 47-392) that contains one laminin-like G domain (aa 91-264). Within the G domain, the presence or absence of a splice site (aa 201-230) materially impacts neuroligin binding. Over aa 47-392, rat Neurexin 1β is 100% and 98% aa identical to mouse and human Neurexin 1β, respectively.

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