

Rat Neurexin 1β/NXRN1b Biotinylated Antibody

Antigen Affinity-purified Polyclonal Sheep IgG Catalog Number: BAF4524

DESCRIPTION	
Species Reactivity	Rat
Specificity	Detects rat Neurexin 1β in Western blots. In Western blots, 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 isoform 1 Ala47-Thr392 Accession # Q63373
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.

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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.

Recommended Concentration		Sample			
Western Blot	0.1 μg/mL	Recombinant Rat Neurexin 1β/NXRN1b			

PREPARATION AND STORAGE

Reconstitution	n Reconstitute at 0.2 mg/mL in sterile PBS.		
Shipping	Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.		
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.		
	 12 months from date of receipt, -20 to -70 °C as supplied. 		
	 1 month, 2 to 8 °C under sterile conditions after reconstitution. 		
	 6 months, -20 to -70 °C under sterile conditions after reconstitution. 		

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 1 β 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 1 β is 100% and 98% aa identical to mouse and human Neurexin 1 β , respectively.

