Technical Data Sheet Purified Mouse Anti-Neurexin I

Material Number:	611882
Size:	50 µg
Concentration:	250 μg/ml
Clone:	17/Neurexin I
Immunogen:	Rat Neurexin Iα aa. 1063-1184
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Mouse Tested in Development: Rat, Dog, Human
Target MW:	165 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and $\leq 0.09\%$ sodium azide.

Description

Neurexins are a family of neuron-specific cell surface proteins that contain hundreds of isoforms. These isoforms are generated from two different promoters in three different genes that code for many splice-variant transcripts. In rat, neurexins include 160-200 kDa α -neurexins and 90-100 kDa β -neurexins, which include multipe isoforms identified as neurexin I, II, or III. Full-length α -neurexins contain three repeating domains that include a left arm (A) cell interaction module (LNS), a central EGF domain, and a right arm (B) LNS. β -neurexins are identical to α -neurexins in the C-terminal region, but lack the five LNS repeats and three EGF domains of α -neurexins. Neurexin I α was first characterized as a Ca2+-dependent receptor for α -latrotoxin, the excitatory neurotoxin in black widow spider venom. The C-terminus of Neurexin I α interacts with the synaptic vesicle protein, synaptotagmin, while the three repeated sequences in the extracellular region have homology to cell adhesion-related proteins. Thus, Neurexin I α may be important for cell-cell interactions and synaptic protein localization during the neuronal differentiation.

This antibody is routinely tested by western blot analysis. Other applications were tested at BD Biosciences Pharmingen during antibody development only or reported in the literature.



Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. Store undiluted at -20° C.

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Application Notes

Application

Western blot	Routinely Tested
Immunofluorescence	Not Recommended

Suggested Companion Products

Catalog Number	Name	Size	Clone
554002	HRP Goat Anti-Mouse Igs	1.0 ml	(none)

Product Notices

- 1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
- 2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
- 3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
- 4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

References

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