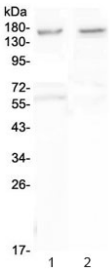
Neurexin 1 Antibody / Neurexin 1 alpha / NRXN1 (RQ4306)

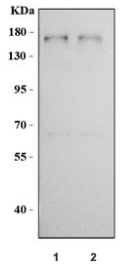
Catalog No.	Formulation	Size
RQ4306	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

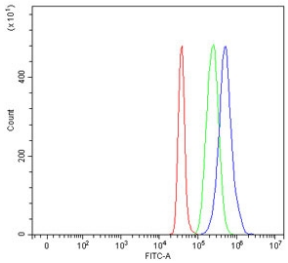
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	Q9ULB1
Localization	Cell membrane
Applications	Western Blot : 0.5-1ug/ml Flow Cytometry : 1-3ug/10^6 cells Direct ELISA : 0.1-0.5ug/ml
Limitations	This Neurexin 1 antibody is available for research use only.



Western blot testing of human 1) U-87 MG and 2) SHG-4 cell lysate with Neurexin antibody at 0.5ug/ml. Predicted molecular weight ~162 kDa.



Western blot testing of human 1) U-87 MG and 2) U251 cell lysate with Neurexin antibody at 0.5ug/ml. Predicted molecular weight ~162 kDa.



Flow cytometry testing of human SH-SY5Y cells with Neurexin 1 antibody at 1ug/10^6 cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue=Neurexin 1 antibody.

Description

Neurexin-1-alpha is a protein that in humans is encoded by the NRXN1 gene. This gene encodes a single-pass type I membrane protein that belongs to the neurexin family. Neurexins are cell-surface receptors that bind neuroligins to form Ca(2+)-dependent neurexin/neuroligin complexes at synapses in the central nervous system. This complex is required for efficient neurotransmission and is involved in the formation of synaptic contacts. Three members of this gene family have been studied in detail and are estimated to generate over 3,000 variants through the use of two alternative promoters (alpha and beta) and extensive alternative splicing in each family member. Recently, a third promoter (gamma) was identified for this gene in the 3' region. Mutations in this gene are associated with Pitt-Hopkins-like syndrome-2 and may contribute to susceptibility to schizophrenia.

Application Notes

Optimal dilution of the Neurexin 1 antibody should be determined by the researcher.

Immunogen

A recombinant human protein corresponding to amino acids D141-E294 was used as the immunogen for the Neurexin 1 antibody.

Storage

After reconstitution, the Neurexin 1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Ordering: Phone: 858.663.9055 | Fax: 1.267.821.0800 | Email: info@nsjbio.com