

Rabbit anti-Human Neurexin I Polyclonal Antibody | anti-NRXN1 antibody

Neurexin I Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA322567	Rabbit	Human	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

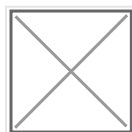
PRODUCT SYNONYMS

Neurexin I; Polyclonal Antibody; Neurexin I Antibody; DKFZp313P2036; FLJ35941; Hs.22998; KIAA0578; Neurexin 1 alpha; Neurexin 1 beta; Neurexin I-alpha; Neurexin-1; Neurexin-1-alpha; NRX1A_HUMAN; NRXN1; PTHSL2; SCZD17; anti-NRXN1 antibody

PRODUCT SPECIFICATIONS

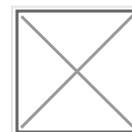
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Specificity	Neurexin I antibody detects endogenous levels of total Neurexin I
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	1547
Applicable Applications for anti-NRXN1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human Neurexin I
Subcellular Location	Plasma Membrane
Tissue Specificity	Brain.
Predicted Cross Reactivity	Bovine
Similarity	Bovine (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA322567 staining Hela by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



WB (Western Blot)

Western blot analysis Neurexin I using Jurkat whole cell lysates

ADDITIONAL INFORMATION

Related Product Information for anti-NRXN1 antibody

Function: Cell surface protein involved in cell-cell-interactions, exocytosis of secretory granules and regulation of signal transmission. Function is isoform-specific. Alpha-type isoforms have a long N-terminus with six laminin G-like domains and play an important role in synaptic signal transmission. Alpha-type isoforms play a role in the regulation of calcium channel activity and Ca²⁺-triggered neurotransmitter release at synapses and at neuromuscular junctions. They play an important role in Ca²⁺-triggered exocytosis of secretory granules in pituitary gland. They may effect their functions at synapses and in endocrine cells via their interactions with proteins from the exocytotic machinery. Likewise, alpha-type isoforms play a role in regulating the activity of postsynaptic NMDA receptors, a subtype of glutamate-gated ion channels. Both alpha-type and beta-type isoforms may play a role in the formation or maintenance of synaptic junctions via their calcium-dependent interactions (via the extracellular domains) with neuroligin family members, CBLN1 or CBLN2. In vitro, triggers the de novo formation of presynaptic structures. May be involved in specification of excitatory synapses. Alpha-type isoforms were first identified as receptors for alpha-latrotoxin from spider venom (By similarity).

Subunit Structure: Interacts (via laminin G-like domain 2 and/or laminin G-like domain 6) with NLGN1 forming a heterotetramer, where one NLGN1 dimer interacts with one NRXN1 dimer. Interacts (via laminin G-like domain 2 and/or laminin G-like domain 6) with NLGN1, NLGN2, NLGN3, NLGN4X and NLGN4Y; these interactions are calcium-dependent. Interacts (via laminin G-like domain 2) with NXPH1 and NXPH3. Interacts with CBLN1, CBLN2 and, less avidly, with CBLN4 (By similarity). Interacts with LRRTM1, LRRTM2, LRRTM3 and LRRTM4 (By similarity). Alpha-type isoforms (neurexin-1-alpha) interact (via laminin G-like domain 2 and/or laminin G-like domain 6) with DAG1 (via alpha-dystroglycan chain). Alpha-type isoforms interact with alpha-latrotoxin from spider venom. The cytoplasmic C-terminal region binds to CASK, CASKIN1 and APBA1. Interacts with SYT13 and SYTL1 (By similarity).

Post-translational Modifications: N-glycosylated. O-glycosylated.

Similarity: Belongs to the neurexin family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	208609951
NCBI GeneID	9378
NCBI Accession #	NP_001129131.1
NCBI GenBank Nucleotide #	NM_001135659.2
UniProt Accession #	Q9ULB1 ; O60323 ; Q53TJ9 ; Q53TQ1 ; Q5HYI0 ; Q9C079 ; Q9C080 ; Q9C081 ; Q9H3M2 ; Q9UDM6 ; A7KRL9 ; P58400
Molecular Weight	Observed: 150 kDa Predicted: 162 kDa
NCBI Official Full Name	neurexin-1 isoform alpha2
NCBI Official Synonym Full Names	neurexin 1
NCBI Official Symbol	NRXN1
NCBI Official Synonym Symbols	PTHSL2; SCZD17; Hs.22998
NCBI Protein Information	neurexin-1
UniProt Protein Name	Neurexin-1
UniProt Gene Name	NRXN1
UniProt Synonym Gene Names	KIAA0578

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/neurexin-i-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/322567>