

Rabbit anti-Human Neurexin 1 Polyclonal Antibody | anti-NRXN1 antibody

Anti-Neurexin 1 antibody

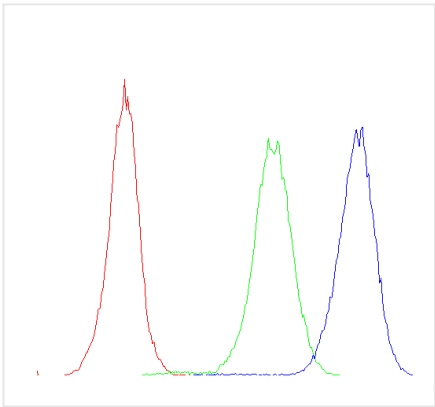
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA124650	Rabbit	Human	Western Blot, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

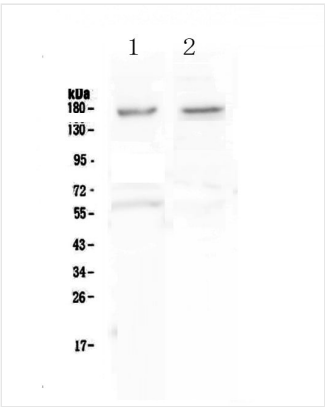
Neurexin 1; Polyclonal Antibody; Anti-Neurexin 1 antibody; Neurexin-1-beta; Neurexin I-beta; NRXN1; anti-NRXN1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Immunogen affinity purified
Form/Format	Lyophilized; Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄
Sequence Length	1,477
Applicable Applications for anti-NRXN1 antibody	WB (Western Blot), FCM/FACS (Flow Cytometry), ELISA
Immunogen	E Coli-derived human Neurexin 1 recombinant protein (Position: D141-E294). Human Neurexin 1 shares 100% amino acid (aa) sequence identity with both mouse and rat Neurexin 1.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)
Figure 2. Flow Cytometry analysis of U251 cells using anti-NRXN1 antibody (AAA124650).Overlay histogram showing U251 cells stained with AAA124650 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-NRXN1 Antibody (AAA124650,1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG (5-10ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)
Figure 1. Western blot analysis of Neurexin 1 using anti-Neurexin 1 antibody (AAA124650).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.Lane 1: human U-87MG whole cell lysates,Lane 2: human SHG-4 whole cell lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Neurexin 1 antigen affinity purified polyclonal antibody at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for Neurexin 1 at approximately 170KDa. The expected band size for Neurexin 1 is at 162KDa.

ADDITIONAL INFORMATION

Related Product Information for anti-NRXN1 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. Protein Function: Neuronal cell surface protein that may be involved in cell recognition and cell adhesion by forming intracellular junctions through binding to neuroligins. May play a role in formation or maintenance of synaptic junctions. May mediate intracellular signaling. May play a role in angiogenesis (By similarity).
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NCBI AND UNIPROT INFORMATION

NCBI GI #	1052292378
NCBI GeneID	9378
NCBI Accession #	NP_001317021.1
NCBI GenBank Nucleotide #	NM_001330092.1
UniProt Accession #	P58400; E7ETA5; Q9ULB1
NCBI Official Full Name	neurexin-1 isoform beta3
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-beta
UniProt Gene Name	NRXN1

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-1-antibody-western-blot-flow-cytometry-elisa/124650>