

Rabbit NRXN3 Polyclonal Antibody | anti-NRXN3 antibody

Anti-NRXN3 Antibody

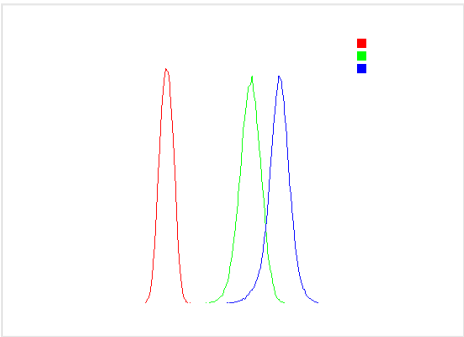
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125758	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

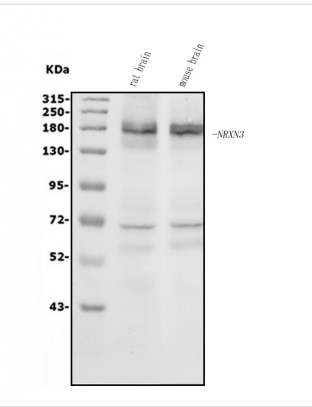
NRXN3; Polyclonal Antibody; Anti-NRXN3 Antibody; Nrnx3; Neurexin-3-beta; Neurexin III-beta [Cleaved into: Neurexin-3-beta; soluble form; C-terminal fragment; NRXN3-CTF]; NRXN3 neurexin 3; anti-NRXN3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for NRXN3 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl and 0.2mg Na2HPO4.
Applicable Applications for anti-NRXN3 antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E Coli-derived human NRXN3 recombinant protein (Position: R294-P549).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)
Figure 2. Flow Cytometry analysis of U2OS cells using anti-NRXN3 antibody (AAA125758).Overlay histogram showing U2OS cells stained with AAA125758 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-NRXN3 Antibody (AAA125758, 1μg/1x10⁶ cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10μg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1μg/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 NRXN3 using anti-NRXN3 antibody (AAA125758).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: rat brain tissue lysatesLane 2: mouse brain tissue 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-NRXN3 antigen affinity purified polyclonal antibody (Catalog # AAA125758) at 0. 5 μg/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 1:5000 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 NRXN3 at approximately 185KD. The expected band size for NRXN3 is at 185KD.

ADDITIONAL INFORMATION

Related Product Information for anti-NRXN3 antibody	Neurexin-3-alpha is a protein that in humans is encoded by the NRXN3 gene. This gene encodes a member of a family of proteins that function in the nervous system as receptors and cell adhesion molecules. Extensive alternative splicing and the use of alternative promoters results in multiple transcript variants and protein isoforms for this gene, but the full-length nature of many of these variants has not been determined. Transcripts that initiate from an upstream promoter encode alpha isoforms, which contain epidermal growth factor-like (EGF-like) sequences and laminin G domains. Transcripts initiating from the downstream promoter encode beta isoforms, which lack EGF-like sequences. Genetic variation at this locus has been associated with a range of behavioral phenotypes, including alcohol dependence and autism spectrum disorder.
References	1. Hishimoto, A., Liu, Q. -R., Drgon, T., Pletnikova, O., Walther, D., Zhu, X. -G., Troncoso, J. C., Uhl, G. R. Neurexin 3 polymorphisms are associated with alcohol dependence and altered expression of specific isoforms. Hum. Molec. Genet. 16: 2880-2891, 2007. 2. Keum, S., Kim, A., Shin, J. J., Kim, J. -H., Park, J., Shin, H. -S. A missense variant at the Nrnx3 locus enhances empathy fear in the mouse. Neuron 98: 588-601, 2018. 3. Missler, M., Sudhof, T. C. Neurexins: three genes and 1001 products. Trends Genet. 14: 20-26, 1998.

NCBI AND UNIPROT INFORMATION

NCBI GI #	157427673
NCBI GeneID	9369
NCBI Accession #	NP_001098720.1
NCBI GenBank Nucleotide #	NM_001105250.2
UniProt Accession #	Q9HDB5; Q6NUR0; Q8IUD8; A5PKW8; A8MPU5; B3KPM7; Q9Y4C0
Molecular Weight	69,305 Da
NCBI Official Full Name	neurexin 3 isoform 3
NCBI Official Synonym Full Names	neurexin 3

NCBI Official Symbol	NRXN3
NCBI Official Synonym Symbols	C14orf60
NCBI Protein Information	neurexin 3; neurexin III; neurexin-3-alpha
UniProt Protein Name	Neurexin-3-beta
UniProt Gene Name	NRXN3
UniProt Synonym Gene Names	KIAA0743; NRXN3-CTF
UniProt Entry Name	NRX3B_HUMAN

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/nrxn3-antibody-direct-elisa-flow-cytometry-western-blot-elisa/125758>