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Datasheet for 200-301-W83

Neuroligin 3 Antibody

Overview

Description:	Anti-Neuroligin 3 (MOUSE) Monoclonal Antibody - 200-301-W83
Item No.:	200-301-W83
Size:	100 µg
Applications:	IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Mouse

Product Details

Background:	Neuroligins are Type I membrane proteins enriched in synaptic plasma membranes and clustered in synaptic clefts and postsynaptic densities. They have been characterized as neuronal cell surface proteins and are thought to be involved in cell-cell-interactions by forming intercellular junctions through binding to beta-neurexins. They play a major role in the formation or maintenance of synaptic junctions. They are also thought to be involved in the specification of excitatory synapses. Neuroligins interact with beta-neurexins and this interaction is involved in the formation of functional synapses. Anti-Neuroligin-3 is ideal for research in Neuroscience, including autism research, and Cell Adhesion and Communication.
Synonyms:	Gliotactin homolog, Neuroligin-3, Nlgn3, NLGN3_HUMAN
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	S110-29
Format:	IgG1

Target Details

Gene Name:	Nlgn3
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Recombinant Protein

Immunogen:	Anti-Neuroligin 3 Antibody was produced by repeated immunization of mice with a fusion protein containing amino acids 730-848 of rat Neuroligin-3.
Purity/Specificity:	Anti-Neuroligin-3 Antibody was purified from concentrated tissue culture supernate by Protein G chromatography. BLAST analysis suggests that it is 99% identical to mouse, 98% identical to human, ~60% identical with Neuroligin-1 and ~40% identical to Neuroligin-2.
Relevant Links:	• UniProtKB - Q62889 • GeneID - 171297

Application Details

Tested Applications:	IHC, WB
Application Note:	Anti-Neuroligin-3 Antibody is suitable for Western Blots, Immunohistochemistry and Immunocytochemistry. Expect a band approximately ~110kDa on specific lysates or tissues. Does not cross react with Neuroligin -1, -2, or -4. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000
IHC:	User Optimized
WB:	1:1000

Formulation

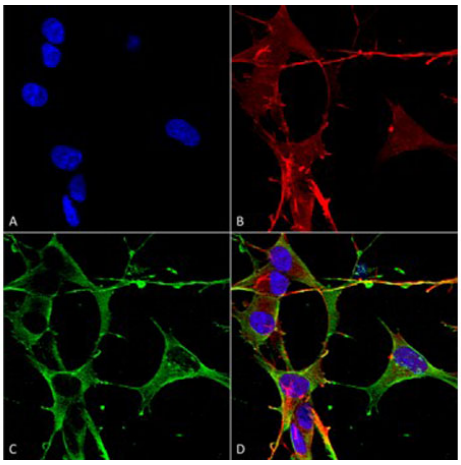
Physical State:	Liquid (sterile filtered)
Concentration:	1mg/mL by UV absorbance at 280 nm
Buffer:	1X PBS, pH 7.4
Preservative:	0.1% (w/v) Sodium Azide
Stabilizer:	50% (v/v) Glycerol

Shipping & Handling

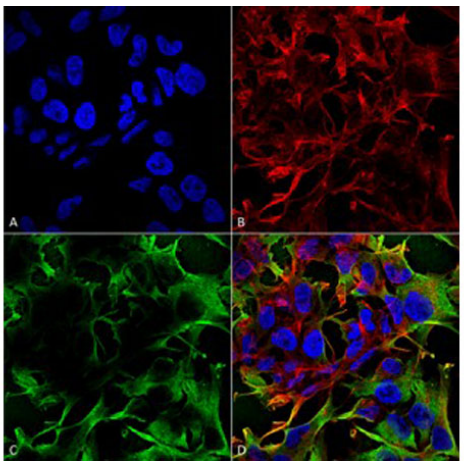
Shipping Condition:	Wet Ice

Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

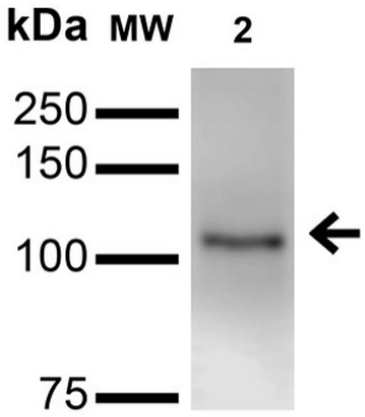
Images



Immunofluorescence Microscopy
Immunofluorescence of Mouse Anti-Neuroligin 3 Monoclonal Antibody.
Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human.
Fixation: 4% PFA for 15 min.
Primary Antibody: Mouse Anti-Neuroligin 3 Monoclonal Antibody at 1:50 for overnight at 4°C.
Secondary Antibody: AlexaFluor 488 at 1:1000 for 1 hour at RT.
Counterstain: Phalloidin-iFluor 647 (red) F-Actin stain; Hoechst (blue) nuclear stain at 1:800, 1.6mM for 20 min at RT.
(A) Hoechst (blue) nuclear stain. (B) Phalloidin-iFluor 647 (red) F-Actin stain. (C) Neuroligin 3 Antibody (D) Composite.



Immunofluorescence Microscopy
Immunofluorescence of Mouse Anti-Neuroligin 3 Monoclonal Antibody.
Tissue: Neuroblastoma cell line (SK-N-BE). Species: Human.
Fixation: 4% Formaldehyde for 15 min at RT.
Primary Antibody: Mouse Anti-Neuroligin 3 Monoclonal Antibody at 1:100 for 60 min at RT.
Secondary Antibody: Goat Anti-Mouse ATTO 488 at 1:100 for 60 min at RT.
Counterstain: Phalloidin Texas Red F-Actin stain; DAPI (blue) nuclear stain at 1:1000, 1:5000 for 60min RT, 5min RT.
Localization: Cell Membrane, Cell Junction, Synapse .
Magnification: 60X. (A) DAPI (blue) nuclear stain. (B) Phalloidin Texas Red F-Actin stain. (C) Neuroligin 3 Antibody. (D) Composite.



Western Blot
Western Blot of Mouse Anti-Neuroligin 3 Monoclonal Antibody.
Load: 15 µg. Lane 1: Molecular Weight Ladder. Lane 2: Mouse Brain Membrane.
Block: 2% BSA and 2% Skim Milk in 1X TBST.
Primary Antibody: Mouse Anti-Neuroligin 3 Monoclonal Antibody at 1:200 for 16 hours at 4°C.
Secondary Antibody: Goat Anti-Mouse IgG: HRP at 1:1000 for 1 hour RT.
Color Development: ECL solution for 6 min in RT.
Predicted/Observed Size: ~110 kDa.

Disclaimer

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