

Datasheet for 200-301-W83**Neuroigin 3 Antibody****Overview**

Description:	Anti-Neuroigin 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:	Neuroigins 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. Neuroigins interact with beta-neurexins and this interaction is involved in the formation of functional synapses. Anti-Neuroigin-3 is ideal for research in Neuroscience, including autism research, and Cell Adhesion and Communication.
Synonyms:	Gliotactin homolog, Neuroigin-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-Neuroigin 3 Antibody was produced by repeated immunization of mice with a fusion protein containing amino acids 730-848 of rat Neuroigin-3.
Purity/Specificity:	Anti-Neuroigin-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 Neuroigin-1 and ~40% identical to Neuroigin-2.
Relevant Links:	• UniProtKB - Q62889 • GenelD - 171297

Application Details

Tested Applications:	IHC, WB
Application Note:	Anti-Neuroigin-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 Neuroigin -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

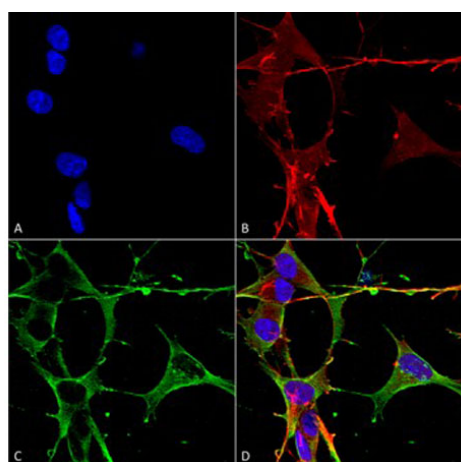
Shipping & Handling

Shipping Condition:	Wet Ice
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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-Neurologin 3 Monoclonal Antibody.

Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human.

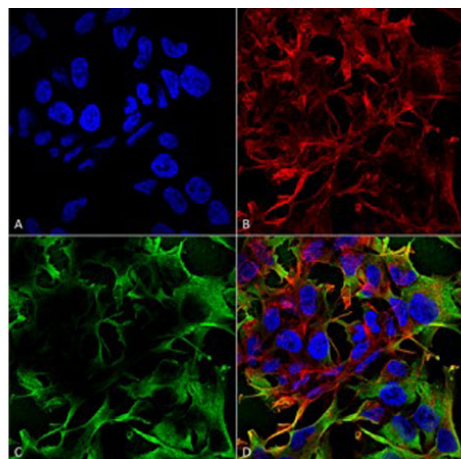
Fixation: 4% PFA for 15 min.

Primary Antibody: Mouse Anti-Neurologin 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) Neurologin 3 Antibody (D) Composite.



Immunofluorescence Microscopy

Immunofluorescence of Mouse Anti-Neurologin 3 Monoclonal Antibody.

Tissue: Neuroblastoma cell line (SK-N-BE). Species: Human.

Fixation: 4% Formaldehyde for 15 min at RT.

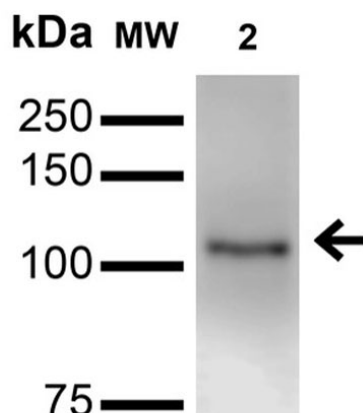
Primary Antibody: Mouse Anti-Neurologin 3 Monoclonal Antibody at 1:100 for 60 min at RT.

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) Neurologin 3 Antibody. (D) Composite.

**Western Blot**

Western Blot of Mouse Anti-Neurologin 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-Neurologin 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

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.