

Datasheet for 200-301-W75**Neuroigin 1 Antibody****Overview**

Description:	Anti-Neuroigin 1 (MOUSE) Monoclonal Antibody - 200-301-W75
Item No.:	200-301-W75
Size:	100 µg
Applications:	IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Mouse

Product Details

Background:	Neuroigin-1 is a neuronal cell surface protein belonging to the type-B carboxylesterase/lipase family. It is a necessary component in the maturation of excitatory synapses for their normal, functional development, and is necessary to the regulation of synaptic plasticity and the development of long-term memory within the adult amygdala in mammals. It is believed to participate in cell-cell-interaction through the assembly of intracellular junction by the binding of beta-neurexins, and may also be a factor in the maintenance and assembly of synaptic junctions. It is also thought to have involvement in excitatory synaptic specification. Within brain tissue, Neuroigin-1 is primarily observed in neurons and spinal cord. Anti-Neuroigin-1 is ideal for research in Neuroscience, including narcolepsy and synaptic neurotransmission: GABAergic inhibition, as well as Cell Adhesion.
Synonyms:	NLG 1, KIAA1070, MGC45115, Neuroigin-1, NL1, NLG1, Nlgn1
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	S97A-31
Format:	IgG1

Target Details

Gene Name:	Nlgn1
Reactivity:	Human, Mouse, Rat

Immunogen Type:	Recombinant Protein
Immunogen:	Anti-Neurologin 1 Antibody was produced by repeated immunization of mice with a fusion protein containing amino acids 718-843 of rat Neurologin-1.
Purity/Specificity:	Anti-Neurologin 1 Antibody was purified from concentrated tissue culture supernate by Protein G chromatography. BLAST analysis suggests that it is 99% identical to mouse, 99% identical to human and >50% identical to Neurologin-2 and -3.
Relevant Links:	• UniProtKB - Q62765 • GenelD - 116647

Application Details

Tested Applications:	IHC, WB
Application Note:	Anti-Neurologin 1 Antibody is suitable for Western Blots, Immunohistochemistry and Immunocytochemistry. Expect a band approximately ~120kDa on specific lysates or tissues. Does not cross react with other Neurologins. 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:	1:5,000
IHC:	User Optimized
WB:	1:500

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/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

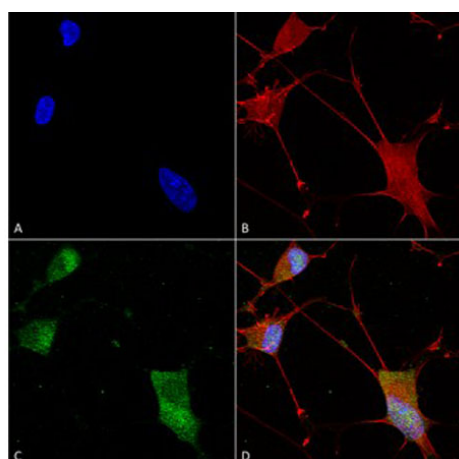
Shipping & Handling

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-Neuroigin 1 Monoclonal Antibody.

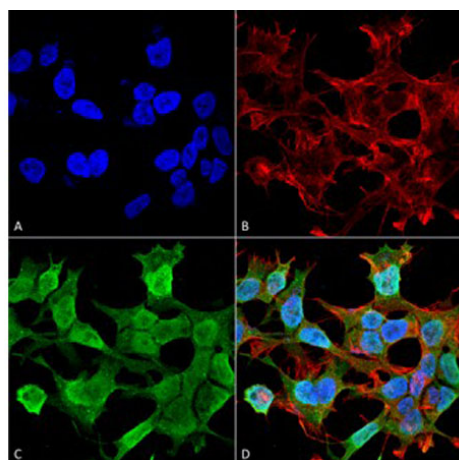
Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human.

Fixation: 4% PFA for 15 min.

Primary Antibody: Mouse Anti-Neuroigin 1 Monoclonal Antibody at 1:100 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) Neuroigin 1 Antibody (D) Composite.



Immunofluorescence Microscopy

Immunofluorescence of Mouse Anti-Neuroigin 1 Monoclonal Antibody.

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

Fixation: 4% Formaldehyde for 15 min at RT.

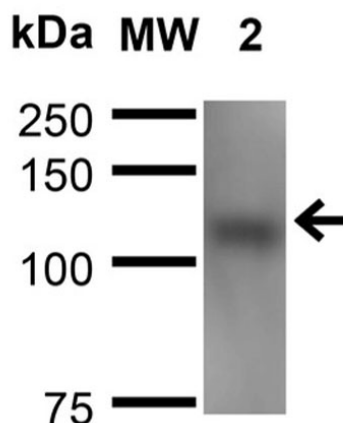
Primary Antibody: Mouse Anti-Neuroigin 1 Monoclonal Antibody at 1:100 for 60 min at RT.

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, Nucleus. Magnification: 60X.

(A) DAPI (blue) nuclear stain. (B) Phalloidin Texas Red F-Actin stain. (C) Neuroigin 1 Antibody. (D) Composite.

**Western Blot**

Western Blot of Mouse Anti-Neurologin 1 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 1 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: ~120 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.