

Datasheet for ABIN1741314
anti-Neuroigin 1 antibody (AA 718-843) (Alkaline Phosphatase (AP))

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3 Images

Overview

Quantity:	100 µg
Target:	Neuroigin 1 (NLGN1)
Binding Specificity:	AA 718-843
Reactivity:	Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Neuroigin 1 antibody is conjugated to Alkaline Phosphatase (AP)
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunocytochemistry (ICC), Immunofluorescence (IF)

Product Details

Immunogen:	Fusion protein amino acids 718-843 (cytoplasmic C-terminus) of rat Neuroigin-1. Mouse: 99% identity (125/126 amino acids identical). Human: 99% identity (125/126 amino acids identical) >40% identity with Neuroigin-2 and -3.
Clone:	S97A-31
Isotype:	IgG1
Specificity:	Detects ~120 kDa. Does not cross-react with other Neuroigin.
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Protein G Purified

Target Details

Target:	Neurologin 1 (NLGN1)
Alternative Name:	Neurologin 1 (NLGN1 Products)
Background:	Neurologin-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, Neurologin-1 is primarily observed in neurons and spinal cord.
Gene ID:	116647
UniProt:	Q62765
Pathways:	Synaptic Membrane , Synaptic Vesicle Exocytosis

Application Details

Application Notes:	<ul style="list-style-type: none">• WB (1:1000)• ICC/IF (1:100)• optimal dilutions for assays should be determined by the user.
Comment:	2 µg/ml of ABIN1741314 was sufficient for detection of Neurologin-1 in 20 µg of rat brain lysate by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.
Restrictions:	For Research Use only

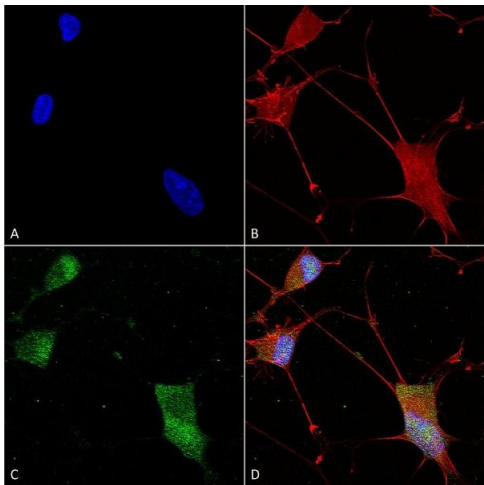
Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	PBS pH 7.4, 50 % glycerol, 0.1 % sodium azide, Storage buffer may change when conjugated
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C

Handling

Storage Comment: Conjugated antibodies should be stored at 4°C

Images

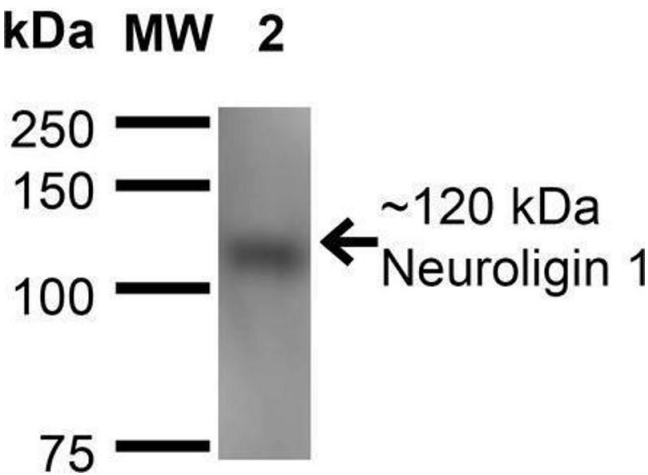


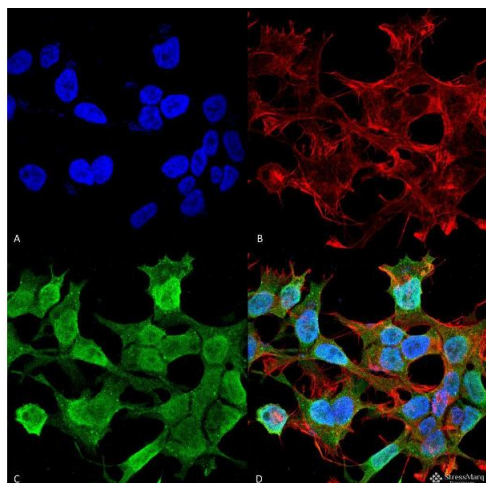
Immunocytochemistry

Image 1. Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Neurologin 1 Monoclonal Antibody, Clone S97A-31 (ABIN1741314). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4 % PFA for 15 min. Primary Antibody: Mouse Anti-Neurologin 1 Monoclonal Antibody (ABIN1741314) at 1:100 for overnight at 4 °C with slow rocking. 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, 1.6 mM for 20 min at RT. (A) Hoechst (blue) nuclear stain. (B) Phalloidin-iFluor 647 (red) F-Actin stain. (C) Neurologin 1 Antibody (D) Composite.

Western Blotting

Image 2. Western Blot analysis of Mouse Brain Membrane showing detection of ~120 kDa Neurologin 1 protein using Mouse Anti-Neurologin 1 Monoclonal Antibody, Clone S97A-31 . Lane 1: Molecular Weight Ladder. Lane 2: Mouse Brain Membrane. Load: 15 µg. 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.





Immunofluorescence (fixed cells)

Image 3. Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Neuroligin 1 Monoclonal Antibody, Clone S97A-31 . Tissue: Neuroblastoma cell line (SK-N-BE). Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-Neuroligin 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) Neuroligin 1 Antibody (D) Composite.