

**Neuroigin 1 Antibody**  
**Neuroigin 1 Antibody, Clone S97A-31**  
**Catalog # ASM10295**

**Specification**

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**Neuroigin 1 Antibody - Product Information**

Application	<b>WB</b>
Primary Accession	<a href="#">Q62765</a>
Other Accession	<a href="#">NP_446320.1</a>
Host	<b>Mouse</b>
Isotype	<b>IgG1</b>
Reactivity	<b>Human, Mouse, Rat</b>
Clonality	<b>Monoclonal</b>

**Description**

Mouse Anti-Rat Neuroigin 1 Monoclonal IgG1

**Target/Specificity**

Detects ~120kDa. Does not cross-react with other Neuroiginins.

**Other Names**

NLG 1 Antibody, KIAA1070 Antibody, MGC45115 Antibody, Neuroigin-1 Antibody, NL1 Antibody, NLG1 Antibody, Nlgn1 Antibody

**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.

**Purification**

Protein G Purified

Storage **-20°C**

**Storage Buffer**

PBS pH 7.4, 50% glycerol, 0.1% sodium azide

Shipping Temperature **Blue Ice or 4°C**

**Certificate of Analysis**

2 µg/ml of SMC-463 was sufficient for detection of Neuroigin-1 in 20 µg of rat brain lysate by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.

**Cellular Localization**

Cell Membrane | Cell Junction | Synapse | Postsynaptic Cell Membrane | Postsynaptic Density

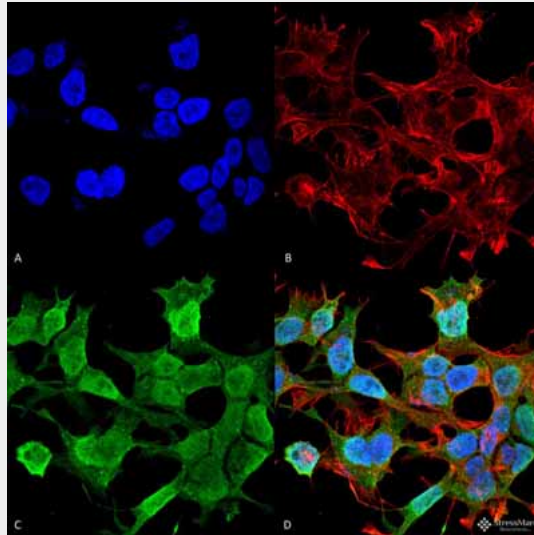
**Neuroigin 1 Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

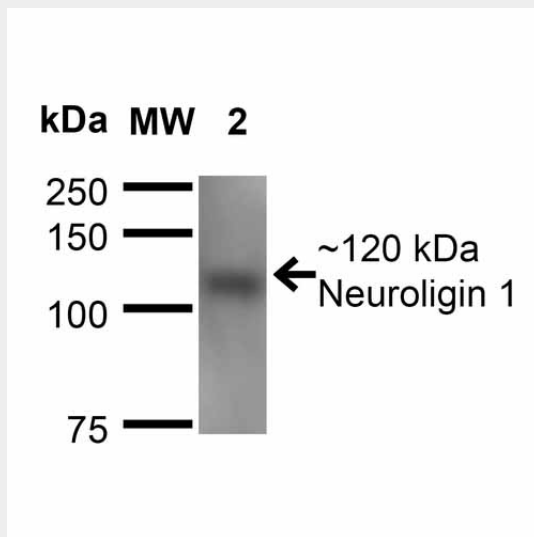
- [Western Blot](#)
- [Blocking Peptides](#)

- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Neuroigin 1 Antibody - Images**



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Neuroigin 1 Monoclonal Antibody, Clone S97A-31 (ASM10295). 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 (ASM10295) 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 analysis of Mouse Brain Membrane showing detection of ~120 kDa Neuroigin 1 protein using Mouse Anti-Neuroigin 1 Monoclonal Antibody, Clone S97A-31 (ASM10295). 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-Neuroigin 1 Monoclonal Antibody (ASM10295) 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.

### **Neuroigin 1 Antibody - 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.