

**Neuroigin 3 Antibody**  
**Neuroigin 3 Antibody, Clone S110-29**  
**Catalog # ASM10303**

**Specification**

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**Neuroigin 3 Antibody - Product Information**

Application	<b>WB</b>
Primary Accession	<a href="#">O62889</a>
Other Accession	<a href="#">AAA97871</a>
Host	<b>Mouse</b>
Isotype	<b>IgG1</b>
Reactivity	<b>Human, Mouse, Rat</b>
Clonality	<b>Monoclonal</b>

**Description**

Mouse Anti-Rat Neuroigin 3 Monoclonal IgG1

**Target/Specificity**

Detects ~110kDa. Does not cross-react with Neuroigin-1, -2, -4 or -4.

**Other Names**

Gliotactin homolog Antibody, Neuroigin-3 Antibody, Nlgn3 Antibody, NLGN3\_HUMAN Antibody

**Immunogen**

Fusion protein amino acids 730-848 (intracellular C-terminus) of rat Neuroigin-3. Mouse: 99% identity (118/119 amino acids identical). Human: 98% identity (116/119 amino acids identical) ~60% identity with Neuroigin-1. ~40% identity with Neuroigin-2.

**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**

1 µg/ml of SMC-471 was sufficient for detection of Neuroigin 3 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

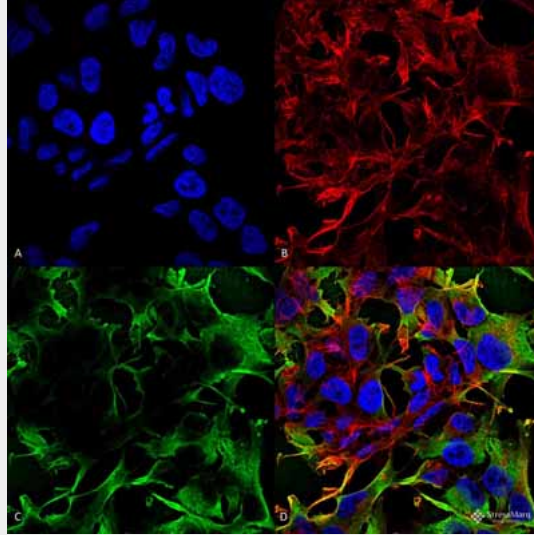
**Neuroigin 3 Antibody - Protocols**

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

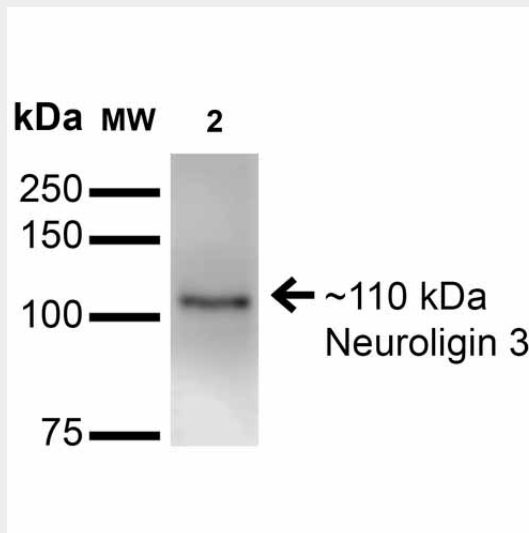
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

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

### Neuroigin 3 Antibody - Images



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Neuroigin 3 Monoclonal Antibody, Clone S110-29 (ASM10303). Tissue: Neuroblastoma cell line (SK-N-BE). Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-Neuroigin 3 Monoclonal Antibody (ASM10303) 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) Neuroigin 3 Antibody (D) Composite.



Western Blot analysis of Mouse Brain Membrane showing detection of ~110 kDa Neuroigin 3 protein using Mouse Anti-Neuroigin 3 Monoclonal Antibody, Clone S110-29 (ASM10303). 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 3 Monoclonal Antibody

(ASM10303) 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.

### **Neuroigin 3 Antibody - 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.