

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

Specification

Neuroigin 3 Antibody - Product Information

Application	WB, IHC, ICC
Primary Accession	Q62889
Other Accession	AAA97871
Host	Mouse
Isotype	IgG1
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal
Format	APC

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

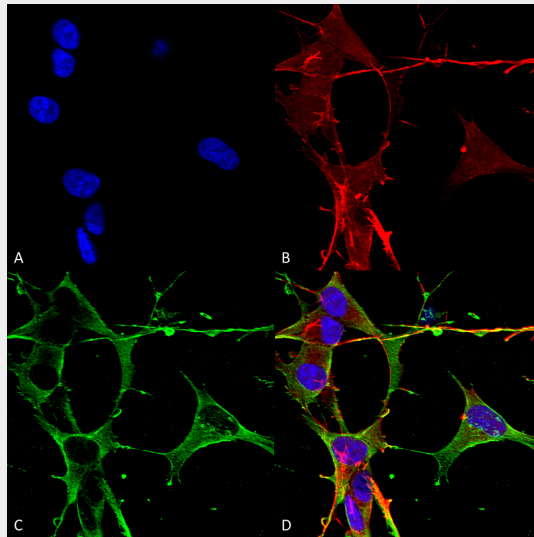
Neuroigin 3 Antibody - Protocols

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 N110/29 (ASM10303). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4% PFA for 15 min. Primary Antibody: Mouse Anti-Neuroigin 3 Monoclonal Antibody (ASM10303) at 1:50 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, 1.6mM for 20 min at RT. (A) Hoechst (blue) nuclear stain. (B) Phalloidin-iFluor 647 (red) F-Actin stain. (C) Neuroigin 3 Antibody (D) Composite.

Neuroigin 3 Antibody - Background

Neuroigin 3s 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. Neuroigin 3s interact with beta-neurexins and this interaction is involved in the formation of functional synapses.