

Datasheet for ABIN1741449
anti-Neurologin 3 antibody (AA 730-848)[Go to Product page](#)

3 Images

Overview

| | |
|----------------------|--|
| Quantity: | 100 µg |
| Target: | Neurologin 3 (NLGN3) |
| Binding Specificity: | AA 730-848 |
| Reactivity: | Rat |
| Host: | Mouse |
| Clonality: | Monoclonal |
| Application: | Western Blotting (WB), Immunohistochemistry (IHC), Immunocytochemistry (ICC), Immunofluorescence (IF) |

Product Details

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|-------------------|---|
| Immunogen: | Fusion protein amino acids 730-848 (intracellular C-terminus) of rat Neurologin-3. Mouse: 99% identity (118/119 amino acids identical). Human: 98% identity (116/119 amino acids identical) ~60% identity with Neurologin-1. ~40% identity with Neurologin-2. |
| Clone: | S110-29 |
| Isotype: | IgG1 |
| Specificity: | Detects ~110 kDa. Does not cross-react with Neurologin-1, -2, -4 or -4. |
| Cross-Reactivity: | Human, Mouse, Rat |
| Purification: | Protein G Purified |

Target Details

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|---------|----------------------|
| Target: | Neurologin 3 (NLGN3) |
|---------|----------------------|

Target Details

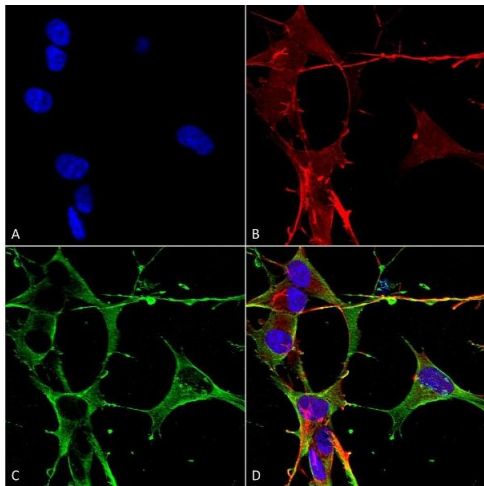
| | |
|-------------------|--|
| Alternative Name: | Neuroigin 3 (NLGN3 Products) |
| Background: | Neuroligins are Type I membrane proteins enriched in synaptic plasma membranes and clustered in synaptic clefts and postsynaptic densities. They have been characterized as neuronal cell surface proteins 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. |
| Gene ID: | 171297 |
| UniProt: | Q62889 |
| Pathways: | Synaptic Membrane |

Application Details

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|--------------------|--|
| Application Notes: | <ul style="list-style-type: none">• WB (1:1000)• optimal dilutions for assays should be determined by the user. |
| Comment: | 1 µg/ml of ABIN1741449 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. |
| Restrictions: | For Research Use only |

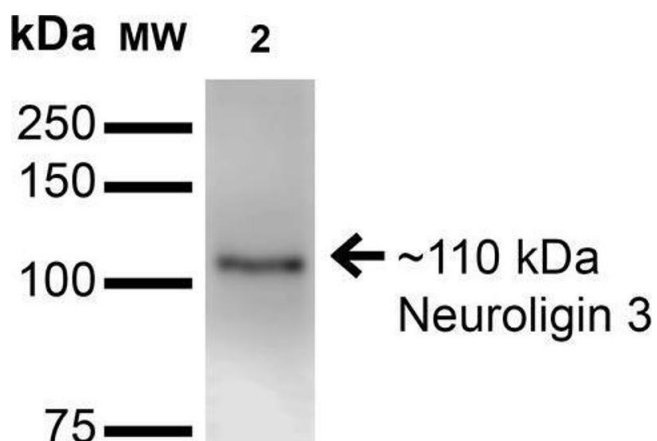
Handling

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|--------------------|--|
| 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: | -20 °C |
| Storage Comment: | -20°C |



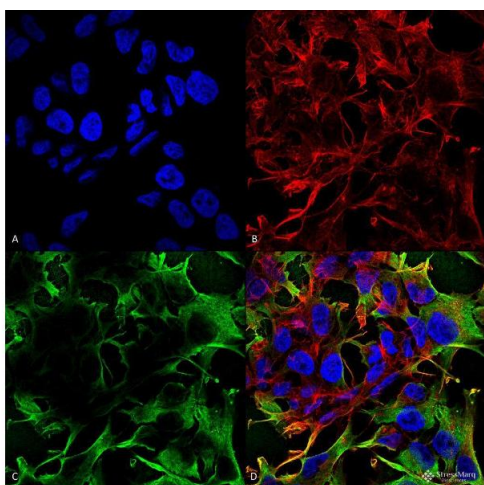
Immunocytochemistry

Image 1. Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Neurologin 3 Monoclonal Antibody, Clone S110-29 (ABIN1741449). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4 % PFA for 15 min. Primary Antibody: Mouse Anti-Neurologin 3 Monoclonal Antibody (ABIN1741449) 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, 1.6 mM for 20 min at RT. (A) Hoechst (blue) nuclear stain. (B) Phalloidin-iFluor 647 (red) F-Actin stain. (C) Neurologin 3 Antibody (D) Composite.



Western Blotting

Image 2. Western Blot analysis of Mouse Brain Membrane showing detection of ~110 kDa Neurologin 3 protein using Mouse Anti-Neurologin 3 Monoclonal Antibody, Clone S110-29 . 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 3 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: ~110 kDa.



Immunofluorescence (fixed cells)

Image 3. Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Neurologin 3 Monoclonal Antibody, Clone S110-29 . Tissue: Neuroblastoma cell line (SK-N-BE). Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-Neurologin 3 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, Cell Junction, Synapse . Magnification: 60X. (A) DAPI (blue) nuclear stain (B) Phalloidin Texas Red F-Actin stain (C) Neuroligin 3 Antibody (D) Composite.