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anti-SHANK1 antibody (AA 469-691)

3 Images



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Overview

| Quantity: | 100 μg |
|----------------------|--|
| Target: | SHANK1 |
| Binding Specificity: | AA 469-691 |
| Reactivity: | Rat |
| Host: | Mouse |
| Clonality: | Monoclonal |
| Conjugate: | This SHANK1 antibody is un-conjugated |
| Application: | Western Blotting (WB), Immunohistochemistry (IHC), Antibody Array (AA) |

Product Details

| Immunogen: | Fusion protein amino acids 469-691 (SH3/PDZ domains) of rat Shank1 |
|-------------------|---|
| Clone: | N22-21 (Formerly S22-21) |
| Isotype: | IgG1 |
| Specificity: | Detects ~190-220 kDa (alternative splice variants). No cross-reactivity against Shank2 or Shank3. |
| Cross-Reactivity: | Human, Mouse, Rat |
| Purification: | Protein G Purified |

Target:

SHANK1

Target Details

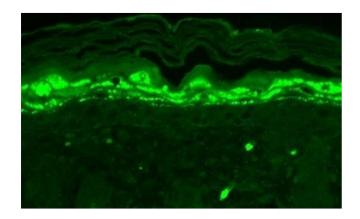
Target Details

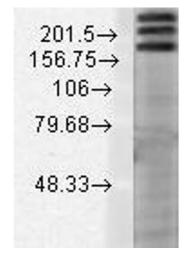
| - Target Details | |
|---------------------|--|
| Alternative Name: | SHANK1 (SHANK1 Products) |
| Background: | Shank proteins make up a family of scaffold proteins identified through their interaction with a |
| | variety of membrane and cytoplasmic proteins (1). Shank proteins at postsynaptic sites of |
| | excitatory synapses play roles in signal transmission into the postsynaptic neuron. Studies |
| | suggest that Shank2 is expressed in the neurons of the developing retina, and could play a role |
| | in the neuronal differentiation of the developing retina (2). Other recent studies suggest that the |
| | disruption of glutamate receptors at the Shank postsynaptic platform could contribute to the |
| | destruction of the postsynaptic density, which underlies the synaptic dysfunction and loss in |
| | Alzheimer's disease (3). |
| Gene ID: | 78957 |
| NCBI Accession: | NP_113939 |
| UniProt: | Q9WV48 |
| Pathways: | Synaptic Membrane, Maintenance of Protein Location |
| Application Details | |
| Application Notes: | • WB (1:1000) |
| | • IHC (1:1000) |
| | ICC/IF (1:100) antimal dilutions for account should be determined by the user. |
| | optimal dilutions for assays should be determined by the user. |
| Comment: | 1 $\mu g/ml$ of ABIN863122 was sufficient for detection of Shank1 in 10 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, 0.09 % 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 |
| | |

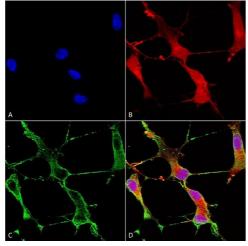
Storage Comment:

-20°C

Images







Immunohistochemistry

Image 1. Immunohistochemistry analysis using Mouse Anti-SHANK1 Monoclonal Antibody, Clone S22-21 (ABIN863122). Tissue: backskin. Species: Mouse. Fixation: Bouin's Fixative and paraffin-embedded. Primary Antibody: Mouse Anti-SHANK1 Monoclonal Antibody (ABIN863122) at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT. Localization: Filaggrin-like staining (upper layer aggregations of staining).

Western Blotting

Image 2. Shank1 Brain Membranes Western Blotting.

Immunocytochemistry

Image 3. Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-SHANK1 Monoclonal Antibody, Clone S22-21 (ABIN863122). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4 % PFA for 15 min. Primary Antibody: Mouse Anti-SHANK1 Monoclonal Antibody (ABIN863122) 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) SHANK1

Antibody (D) Composite.