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Datasheet for ABIN2483702 anti-SHANK1 antibody (AA 469-691) (Atto 594)





Overview

| Quantity: | 100 µg |
|----------------------|--|
| Target: | SHANK1 |
| Binding Specificity: | AA 469-691 |
| Reactivity: | Rat |
| Host: | Mouse |
| Clonality: | Monoclonal |
| Conjugate: | This SHANK1 antibody is conjugated to Atto 594 |
| Application: | Western Blotting (WB), Immunohistochemistry (IHC), Antibody Array (AA) |

Product Details

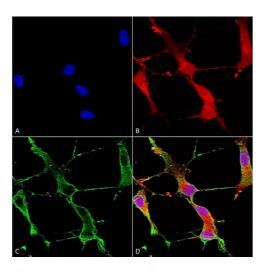
| Immunogen: | Fusion protein amino acids 469-691 (SH3/PDZ domains) of rat Shank1 |
|-------------------|---|
| Clone: | N22-21 (Formerly S22-21) |
| lsotype: | lgG1 |
| Specificity: | Detects ~190-220 kDa (alternative splice variants). No cross-reactivity against Shank2 or Shank3. |
| Cross-Reactivity: | Human, Mouse, Rat |
| Purification: | Protein G Purified |
| Target Details | |
| Target: | SHANK1 |
| | |

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| 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) optimal dilutions for assays should be determined by the user. |
| Comment: | 1 μg/ml of ABIN2483702 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: | 4 °C |

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Validation report #103875 for Immunofluorescence (IF)



$201.5 \rightarrow$ $156.75 \rightarrow$ $106 \rightarrow$ $79.68 \rightarrow$ $48.33 \rightarrow$

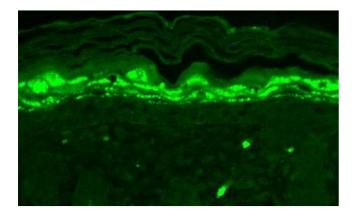
Immunocytochemistry

Image 1. Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-SHANK1 Monoclonal Antibody, Clone S22-21 (ABIN2483702). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4 % PFA for 15 min. Primary Antibody: Mouse Anti-SHANK1 Monoclonal Antibody (ABIN2483702) 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.

Western Blotting

Image 2. Western Blot analysis of Rat brain membrane lysate showing detection of SHANK1 protein using Mouse Anti-SHANK1 Monoclonal Antibody, Clone S22-21 . Load: 15 µg. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Mouse Anti-SHANK1 Monoclonal Antibody at 1:1000 for 2 hours at RT. Secondary Antibody: Sheep Anti-Mouse IgG: HRP for 1 hour at RT.

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Immunohistochemistry

Image 3. Immunohistochemistry analysis using Mouse Anti-SHANK1 Monoclonal Antibody, Clone S22-21 . Tissue: backskin. Species: Mouse. Fixation: Bouin's Fixative and paraffin-embedded. Primary Antibody: Mouse Anti-SHANK1 Monoclonal Antibody 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).

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