



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# Anti-SHANK1 Antibody [S22-21]

Mouse Anti-Rat SHANK1 Monoclonal IgG1  
Catalog No. SMC-329



Discovery through partnership | Excellence through quality

## Overview

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### Product Name

SHANK1 Antibody

### Description

Mouse Anti-Rat SHANK1 Monoclonal IgG1

### Species Reactivity

Human, Mouse, Rat

### Applications

WB, IHC

### Antibody Dilution

WB (1:1000), IHC (1:1000), ICC/IF (1:100); optimal dilutions for assays should be determined by the user.

### Host Species

Mouse

### Immunogen Species

Rat

### Immunogen

Fusion protein amino acids 469-691 (SH3/PDZ domains) of rat Shank1

### Concentration

1 mg/ml

### Conjugates

Alkaline Phosphatase, APC, ATTO 390, ATTO 488, ATTO 565, ATTO 594, ATTO 633, ATTO 655, ATTO 680, ATTO 700, Biotin, FITC, HRP, PE/ATTO 594, PerCP, RPE, Streptavidin, Unconjugated

## Properties

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### Storage Buffer

PBS pH7.4, 50% glycerol, 0.09% sodium azide

### Storage Temperature

-20°C

### Shipping Temperature

Blue Ice or 4°C

### Purification

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Protein G Purified

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**Clonality**

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Monoclonal

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**Clone Number**

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S22-21

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**Isotype**

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IgG1

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**Specificity**

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Detects ~190-220 kDa (alternative splice variants). No cross-reactivity against Shank2 or Shank3.

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**Cite This Product**

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Mouse Anti-Rat SHANK1 Monoclonal, Clone S22-21 (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SMC-329)

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**Certificate Of Analysis**

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1 µg/ml of SMC-329 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.

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**Biological Description**

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**Alternative Names**

GKAP/SAPAP interacting protein Antibody, OTTHUMP00000174437 Antibody, SH3 and multiple ankyrin repeat domains 1 Antibody, SH3 and multiple ankyrin repeat domains protein 1 Antibody, SH3/ankyrin domain gene 1 Antibody, SHAN1\_HUMAN Antibody, SHANK 1 Antibody, Shank1 Antibody, Shank1a Antibody, Somatostatin receptor interacting protein Antibody, Somatostatin receptor-interacting protein Antibody, SPANK 1 Antibody, SPANK1 Antibody, SSTR interacting protein Antibody, SSTR-interacting protein Antibody, SSTRIP Antibody, Synamon Antibody

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**Research Areas**

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Cell Signaling, Cell Structure, Neuroscience, Post-Synaptic Markers, Scaffolds

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**Cellular Localization**

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Cytoplasm, Cell Junction, Postsynaptic cell membrane, Postsynaptic density, Synapse

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**Accession Number**

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NP\_113939.2

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**Gene ID**

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78957

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**Swiss Prot**

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Q9WV48

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**Scientific Background**

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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 Alzheimers disease (3).

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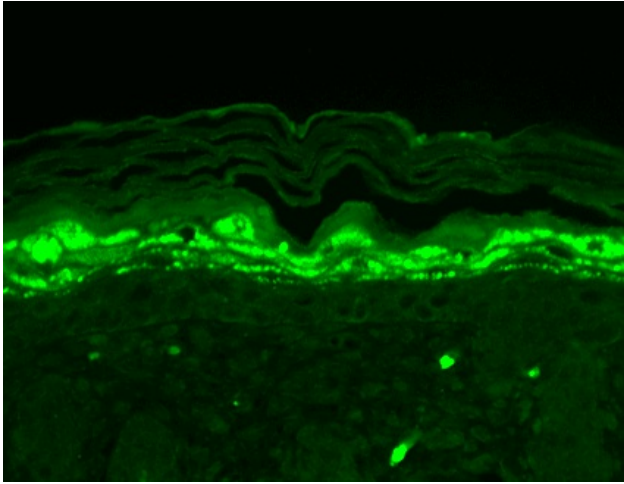
## References

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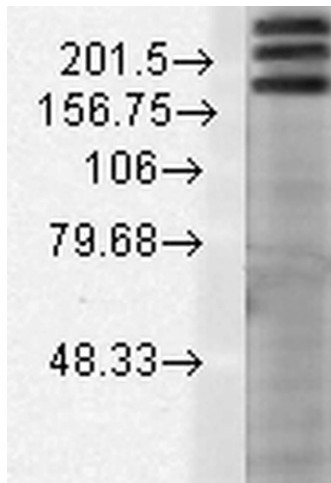
1. Sheng M., and Kim E. (2000) Journal of Cell Science. 113: 1851-1856.
  2. Kim J.H., et al. (2009) Exp Mol Med. 41(4): 236-242.
  3. Gong Y., et al. (2009) Brain Res. 1292: 191-198.
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## Product Images

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Immunohistochemistry analysis using Mouse Anti-SHANK1 Monoclonal Antibody, Clone S22-21 (SMC-329). Tissue: backskin. Species: Mouse. Fixation: Bouin's Fixative and paraffin-embedded. Primary Antibody: Mouse Anti-SHANK1 Monoclonal Antibody (SMC-329) at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT. Localization: Filaggrinlike staining (upper layer aggregations of staining).



Western Blot analysis of Rat brain membrane lysate showing detection of SHANK1 protein using Mouse Anti-SHANK1 Monoclonal Antibody, Clone S22-21 (SMC-329). Load: 15 µg protein. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Mouse Anti-SHANK1 Monoclonal Antibody (SMC-329) at 1:1000 for 2 hours at RT. Secondary Antibody: Sheep Anti-Mouse IgG: HRP for 1 hour at RT.

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## Product Citations (2)

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### Other Citations

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#### **Biomarker Analysis with Grating Coupled Surface Plasmon Coupled Fluorescence.**

Mendoza, A., Dias, J.A., Zeltner, T. and Lawrence, D.A. (2014) J Adv Bio & Biotech. 1(1): 1-22.

**PubMed ID:**    **Reactivity:** Human    **Applications:** Antibody Microarray

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**PubMed ID:**    **Reactivity:** Mouse    **Applications:** Antibody Microarray

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## Reviews

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There are no reviews yet.