



# SZABO SCANDIC

Part of Europa Biosite

## 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

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

# Anti-SHANK (Pan) Antibody [S23b-49]

Mouse Anti-Rat SHANK (pan) Monoclonal IgG1  
Catalog No. SMC-327



Discovery through partnership | Excellence through quality

## Overview

---

### Product Name

SHANK (pan) Antibody

### Description

Mouse Anti-Rat SHANK (pan) Monoclonal IgG1

### Species Reactivity

Human, Mouse, Rat

### Applications

WB, IHC, IP

### 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 84-309 of rat Shank2

### 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

---

### Storage Buffer

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

### Storage Temperature

-20°C

### Shipping Temperature

Blue Ice or 4°C

### Purification

---

Protein G Purified

---

### Clonality

---

Monoclonal

---

### Clone Number

---

S23b-49

---

### Isotype

---

IgG1

---

### Specificity

---

Detects ~160kDa. Recognizes Shank1, 2 and 3.

---

### Cite This Product

---

Mouse Anti-Rat SHANK Monoclonal, Clone S23b-49 (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SMC-327)

---

### Certificate Of Analysis

---

1 µg/ml of SMC-327 was sufficient for detection of Shank1-4 in 10 µg of rat brain lysate by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.

---

## Biological Description

---

### Alternative Names

Cortactin binding protein 1 Antibody, Cortactin SH3 domain-binding protein Antibody, Cortactin-binding protein 1 Antibody, CortBP1 Antibody, CTTNBP1 Antibody, GKAP/SAPAP interacting protein Antibody, GKAP/SAPAP-interacting protein Antibody, KIAA1022 Antibody, Proline rich synapse associated protein 1 Antibody, Proline-rich synapse-associated protein 1 Antibody, ProSAP1 Antibody, SH3 and multiple ankyrin repeat domains protein 2 Antibody, SHAN2\_RAT Antibody, SHANK Antibody, Shank2 Antibody, SPANK-3 Antibody

---

### Research Areas

---

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

---

### Cellular Localization

---

Cytoplasm, Cell Junction, Cell projection, Growth cone, Postsynaptic cell membrane, Postsynaptic density, Synapse

---

### Gene ID

---

171093

---

### Swiss Prot

---

Q9QX74

---

### Scientific 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 Alzheimers disease (3).

---

### References

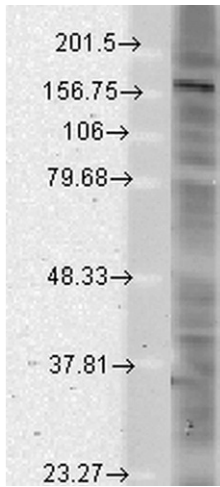
---

1. Sheng M., and Kim E. (2000) Journal of Cell Science. 113: 1851-1856.

- Kim J.H., et al. (2009) Exp Mol Med. 41(4): 236-242.
- Gong Y., et al. (2009) Brain Res. 1292: 191-198.

## Product Images

---



Western Blot analysis of Rat brain membrane lysate showing detection of SHANK protein using Mouse Anti-SHANK Monoclonal Antibody, Clone S23b-49 (SMC-327). Load: 15 µg protein. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Mouse Anti-SHANK Monoclonal Antibody (SMC-327) at 1:1000 for 2 hours at RT. Secondary Antibody: Sheep Anti-Mouse IgG: HRP for 1 hour at RT.

## Product Citations (3)

---

### Western Blot

---

**Impaired synaptic clustering of postsynaptic density proteins and altered signal transmission in hippocampal neurons, and disrupted learning behavior in PDZ1 and PDZ2 ligand binding-deficient PSD-95 knockin mice.**

Nagura, H. et al. (2012) Mol Brain. 5 (43).

**PubMed ID:** 23268962 **Reactivity:** Mouse **Applications:** Western Blot

### Other Citations

---

**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

**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:** Mouse **Applications:** Antibody Microarray

## Reviews

---

Based on validation through cited publications.



**StressMarq Biosciences**

June 14, 2016: