

Datasheet for ABIN6658104  
**anti-SHANK1 antibody (Internal Region)**



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2 Images

## Overview

Quantity:	100 µg
Target:	SHANK1
Binding Specificity:	Internal Region
Reactivity:	Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This SHANK1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Fluorescence Microscopy (FM)

## Product Details

Immunogen:	Immunogen: SHANK1 Antibody was produced in mice by repeated immunizations raised against a fusion protein corresponding to an internal region of (SH3/PDZ domains) of rat Shank1. Immunogen Type: Recombinant Protein
Clone:	S22-21
Isotype:	IgG1
Cross-Reactivity:	Human, Mouse (Murine), Rat (Rattus)
Purification:	Anti-SHANK1 Antibody was purified by Protein G chromatography. A BLAST analysis was used to suggest cross-reactivity with SHANK1 from human, mouse, and rat based on 100% homology with the immunizing sequence. No cross-reactivity against Shank2 or Shank3. Cross-reactivity with Shank1 from other sources has not been determined. Scaffolds research.

## Target Details

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Target:	SHANK1
Alternative Name:	SHANK1 ( <a href="#">SHANK1 Products</a> )
Background:	<p>Synonyms: Spank1, Sstrip, Shank1a, Shank1, SH3 and multiple ankyrin repeat domains protein 1, GKAP/SAPAP-interacting protein, Somatostatin receptor-interacting protein, SSTR-interacting protein, Synamon</p> <p>Background: Shank proteins make up a family of scaffold proteins identified through their interaction with a variety of membrane and cytoplasmic proteins. Shank proteins at postsynaptic sites of excitatory synapses play roles in signal transmission into the postsynaptic neuron. Shank1 specifically might be relevant to human autism spectrum disorders, due to its differential role in specific cognitive processes, along with its importance for synapse structure and function in vivo.</p> <p>Gene Name: Spank1</p>
Gene ID:	78957
NCBI Accession:	<a href="#">NP_113939</a>
UniProt:	<a href="#">Q9WV48</a>
Pathways:	<a href="#">Synaptic Membrane</a> , <a href="#">Maintenance of Protein Location</a>

## Application Details

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Application Notes:	<p>Immunohistochemistry Dilution: 0.1-1.0 µg/mL</p> <p>Application Note: Anti-SHANK1 Antibody is suitable for use in WB and IHC. Expect a band approximately ~190-220 kDa (alternative splice variants) on specific lysates. Specific conditions for reactivity should be optimized by the end user.</p> <p>Western Blot Dilution: 1-10 µg/mL</p> <p>IF Microscopy Dilution: 1.0-10 µg/mL</p>
Restrictions:	For Research Use only

## Handling

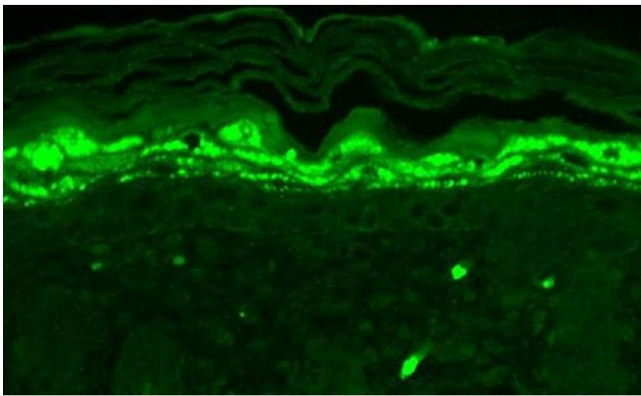
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Format:	Liquid
Buffer:	<p>Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2</p> <p>Stabilizer: 50 % (v/v) Glycerol</p> <p>0.09 % (w/v) Sodium Azide</p>
Preservative:	Sodium azide

## Handling

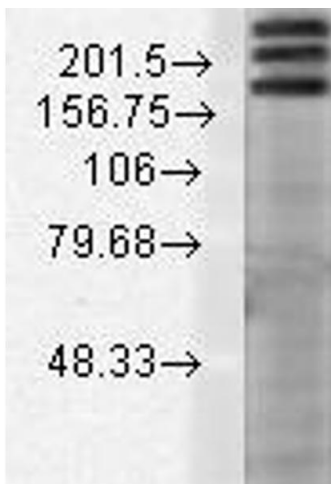
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	RT,4 °C,-20 °C
Storage Comment:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

## Images



### Immunohistochemistry

**Image 1.** Immunohistochemistry of Mouse Anti-SHANK1 Antibody. Immunohistochemistry of Mouse Anti-SHANK1 Antibody. Tissue: Mouse backskin. 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: Filaggrinlike staining (upper layer aggregations of staining).



### Western Blotting

**Image 2.** SHANK1 Western Blot. Western Blot of mouse anti-SHANK1 antibody. Lane 1: Rat Brain Membrane lysate. Primary antibody: SHANK1 antibody at 1:1000 for overnight at 4°C. Secondary antibody: Goat anti-mouse IgG HRP secondary antibody at 1:10,000 for 45 min at RT. Block: 5% Biotin overnight 4°C. Predicted/Observed size: 226.3 kDa/190-220 kDa (alternative splice variants).