

Datasheet for 200-301-G43**SHANK1 Antibody****Overview**

Description:	Anti-SHANK1 (MOUSE) Monoclonal Antibody - 200-301-G43
Item No.:	200-301-G43
Size:	100 µg
Applications:	IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Mouse

Product Details

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.
Synonyms:	SPANK-1, SSTRIP, Shank1a, Shank1, SH3 and multiple ankyrin repeat domains protein 1, GKAP/SAPAP-interacting protein, Somatostatin receptor-interacting protein, SSTR-interacting protein, Synamon
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	N22/21
Format:	IgG1

Target Details

Gene Name:	Shank1
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Recombinant Protein

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.
Purity/Specificity:	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.
Relevant Links:	• NCBI - NP_113939.2 • GeneID - 78957 • UniProtKB - Q9WV48

Application Details

Tested Applications:	IHC, WB
Application Note:	Anti-SHANK1 Antibody is tested for use in WB and IHC. Expect a band approximately ~190-220kDa (alternative splice variants) on specific lysates. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
IF:	1:100
IHC:	1:1000
WB:	1:1000

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1mg/mL by UV absorbance at 280 nm
Buffer:	1X PBS, pH 7.4
Preservative:	0.09% (w/v) Sodium Azide
Stabilizer:	50% (v/v) Glycerol

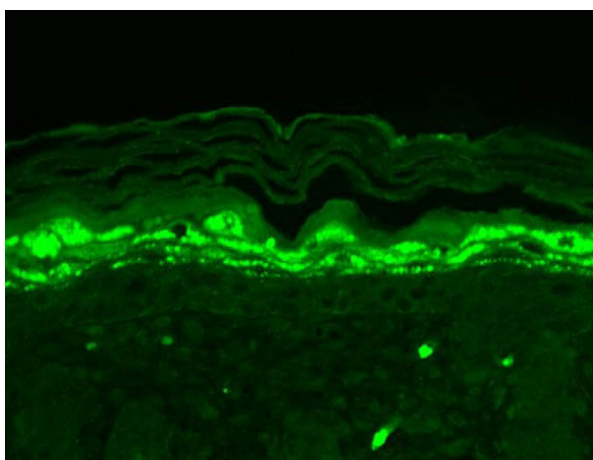
Shipping & Handling

Shipping Condition:	Wet Ice
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Storage Condition: 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.

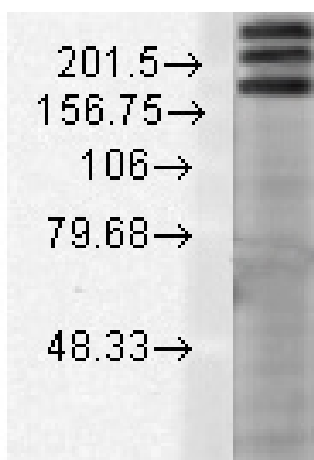
Expiration: Expiration date is one (1) year from date of receipt.

Images



Immunohistochemistry

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 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% Blotto overnight 4°C. Predicted/Observed size: 226.3 kDa/190-220 kD. Other band(s): 190-220 kDa (alternative splice variants).

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.