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Datasheet for 200-366-W72

SHANK1/SHANK3 Antibody Streptavidin

Overview

Description:	Anti-SHANK1/SHANK3 (MOUSE) Monoclonal Antibody Streptavidin Conjugated - 200-366-W72
Item No.:	200-366-W72
Size:	100 µg
Reactivity:	Mus musculus (Mouse), Rattus (Rat)
Host Species:	Mouse

Product Details

Background:	SHANK proteins are scaffolding adaptors that have been shown to integrate neurotransmitter receptors into the cortical cytoskeleton at postsynaptic densities. SHANK1-3 of the SHANK/ProSAP family are molecular scaffolds in the postsynaptic density (PSD). SHANK recruits betaPIX and PAK to dendritic spines to regulate postsynaptic structure and interacts with ionotropic receptor and metabotropic glutamate receptor complexes. Transcript splice variation in the Shank family influences the spectrum of Shank-interacting proteins in the PSDs of adult and developing brain to ensure normal development. Anti-SHANK1/SHANK3 is ideal for research in Neuroscience, including autism spectrum disorder, and Cell Adhesion.
Synonyms:	Shank postsynaptic density protein, SH3 and multiple ankyrin repeat domains 3, Proline rich synapse associated protein 2, Proline-rich synapse-associated protein 2, ProSAP2, PSAP2, , SH3 and multiple ankyrin repeat domains protein 3
Host Species:	Mouse
Conjugate:	Streptavidin
Clonality:	Monoclonal
Clone ID:	S367-51
Format:	IgG2a

Target Details

Gene Name:	Shank3
Reactivity:	Mus musculus (Mouse), Rattus (Rat)
Immunogen Type:	Recombinant Protein

Immunogen:	Anti-SHANK1/SHANK3 Antibody was produced by repeated immunization of mice with a fusion protein containing amino acids 586-626 (SH3 domain) of rat SHANK3.
Purity/Specificity:	Anti-SHANK1/SHANK3 Antibody was purified from concentrated tissue culture supernate by Protein G chromatography. BLAST analysis suggests that it is 100% identical to mouse, 97% identical to human and ~70% identical to SHANK1 and SHANK2.
Relevant Links:	• UniProtKB - Q9JLU4 • GeneID - 59312 • NCBI - NP_067708

Application Details

Application Note:	Anti-SHANK1/SHANK3 Streptavidin Conjugated Antibody is suitable for Western Blots, Immunohistochemistry and Immunocytochemistry. Expect a band approximately ~190kDa on specific lysates or tissues. It will cross react with SHANK1, but it will not cross react with SHANK2. 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.
ELISA:	1:10,000
IHC:	User Optimized
WB:	1:1000

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.1% (w/v) Sodium Azide
Stabilizer:	50% (v/v) Glycerol

Shipping & Handling

Shipping Condition:	Wet Ice

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.

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.