

Datasheet for 200-303-W72**SHANK1/SHANK3 Antibody Peroxidase****Overview**

Description:	Anti-SHANK1/SHANK3 (MOUSE) Monoclonal Antibody Peroxidase Conjugated - 200-303-W72
Item No.:	200-303-W72
Size:	100 µg
Applications:	IHC, WB
Reactivity:	Human, Mouse, 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:	Peroxidase (HRP)
Clonality:	Monoclonal
Clone ID:	S367-51
Format:	IgG2a

Target Details

Gene Name:	Shank3
Reactivity:	Human, Mouse, 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 • GenelD - 59312

Application Details

Tested Applications:	IHC, WB
Application Note:	Anti-SHANK1/SHANK3 HRP 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

Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	Conjugated antibodies should be stored according to the product label. Product stored in 73.64mM Carbonate, 54.55mM Ethanolamine, 45.45mM Cyanoborohydride, 18.18mM Sodium Hydroxide and 0.23mM Citrate in dH2O.
Expiration:	Expiration date is one (1) year from date of receipt.

Disclaimer

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