

## Datasheet for 200-306-W72

**SHANK1/SHANK3 Antibody Biotin****Overview**

<b>Description:</b>	Anti-SHANK1/SHANK3 (MOUSE) Monoclonal Antibody Biotin Conjugated - 200-306-W72
<b>Item No.:</b>	200-306-W72
<b>Size:</b>	100 µg
<b>Applications:</b>	IHC, WB
<b>Reactivity:</b>	Human, Mouse, Rat
<b>Host Species:</b>	Mouse

**Product Details**

<b>Background:</b>	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.
<b>Synonyms:</b>	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
<b>Host Species:</b>	Mouse
<b>Conjugate:</b>	Biotin
<b>Clonality:</b>	Monoclonal
<b>Clone ID:</b>	S367-51
<b>Format:</b>	IgG2a

**Target Details**

<b>Gene Name:</b>	Shank3
<b>Reactivity:</b>	Human, Mouse, Rat

<b>Immunogen Type:</b>	Recombinant Protein
<b>Immunogen:</b>	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.
<b>Purity/Specificity:</b>	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.
<b>Relevant Links:</b>	<ul style="list-style-type: none"><li>• <a href="#">UniProtKB - Q9JLU4</a></li><li>• <a href="#">GenelD - 59312</a></li></ul>

## Application Details

<b>Tested Applications:</b>	IHC, WB
<b>Application Note:</b>	Anti-SHANK1/SHANK3 Biotin 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.
<b>Assay Dilutions:</b>	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
<b>ELISA:</b>	1:10,000
<b>IHC:</b>	User Optimized
<b>WB:</b>	1:1000

## Formulation

<b>Physical State:</b>	Liquid (sterile filtered)
<b>Concentration:</b>	1mg/mL by UV absorbance at 280 nm

## Shipping & Handling

<b>Shipping Condition:</b>	Wet Ice
<b>Storage Condition:</b>	Conjugated antibodies should be stored according to the product label. Product stored in 136.36mM Ethanolamine, and 9.55mM Sodium Bicarbonate in 95.45% PBS.
<b>Expiration:</b>	Expiration date is one (1) year from date of receipt.

## Disclaimer

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