

AB-NN319-1

SHANK1/SHANK3 Antibody

Pan-specific monoclonal antibody (S367-51) for monitoring the expression of rat SHANK1/SHANK3



KINEXUS

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Target Protein

Name Long:	SH3 and multiple ankyrin repeat domains protein 3
Alias:	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, SH3/ankyrin domain gene 3, Shank3b, SPANK 2, SPANK2, KAP/SAPAP interacting protein, SH3 and multiple ankyrin repeat domains 1
UniProt ID:	Q9JLU4 - Rat
Human Predicted Mass (KDa):	184.667 (1731 AA; Q9BYB0-1); 171.151 (1612 AA; Q9BYB0-3)
Observed SDS-PAGE Mass (KDa):	190

Immunogen

Antibody Immunogen Source:	Fusion protein amino acids 538-626 (SH3 domain) of rat SHANK3. Mouse: 100% identity (89/89 amino acids identical). Human: 97% identity (87/89 amino acids identical). ~70% identity with SHANK1 and SHANK2.
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Production

Antibody Host Species:	Mouse
Antibody Type:	Monoclonal
Antibody Ig Isotype Clone Lot:	IgG2a
Antibody Purification:	Protein G purified
Amount:	25 µg
Antibody Concentration:	1 mg/ml
Lot Number:	15DE1
Storage Buffer:	Phosphate buffered saline pH 7.4, 50% glycerol, 0.1% sodium azide
Storage Conditions and Stability:	For long term storage, keep frozen at -40°C or lower. Stock solution can be kept at +4°C for more than 3 months. Avoid repeated freeze-thaw cycles. For long term storage, keep frozen at -40°C or lower. Stock solution can be kept at +4°C for more than 3 months. Avoid repeated freeze-thaw cycles.

Applications

Product Use:	WB IHC ICC/IF
Antibody Dilution Recommended:	WB (1:1000); optimal dilutions for assays should be determined by the user.
Antibody Species Reactivity:	Mouse Rat
Antibody Positive Control:	1 µg/ml of SMC-460 was sufficient for detection of SHANK1/SHANK3 in 20 µg of rat brain lysate by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.
Target Detection Immunoblotting:	In mouse brain lysates, this antibody detects a ~190 kDa protein.
Antibody Specificity:	Very High
Antibody Cross Reactivities:	Cross-reacts with SHANK1. Does not cross-react with SHANK2.

This product is for in vitro research use only and is not intended for use in humans or animals.

For more information on our products please visit www.kinexusproducts.ca or contact us at 1-888-546-3987