

## ARG24122 anti-SHANK2 (pan) antibody [N23b/49]

Package: 50 µg  
Store at: -20°C

### Summary

Product Description	Mouse Monoclonal antibody [N23b/49] recognizes SHANK2 (pan)
Tested Reactivity	Hu, Ms, Rat
Tested Application	ICC/IF, IHC-P, IP, WB
Specificity	~160kDa. Recognizes Shank1, 2 and 3.
Host	Mouse
Clonality	Monoclonal
Clone	N23b/49
Isotype	IgG1
Target Name	SHANK2 (pan)
Species	Rat
Immunogen	Fusion protein amino acids of rat Shank2
Conjugation	Un-conjugated
Alternate Names	SHANK2; SH3 And Multiple Ankyrin Repeat Domains 2; CTTNBP1; SPANK-3; CORTBP1; SHANK; SH3 And Multiple Ankyrin Repeat Domains Protein 2; Cortactin-Binding Protein 1

### Application Instructions

Application table	Application	Dilution
	ICC/IF	1:100
	IHC-P	1:1000
	IP	Assay-dependent
	WB	1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

### Properties

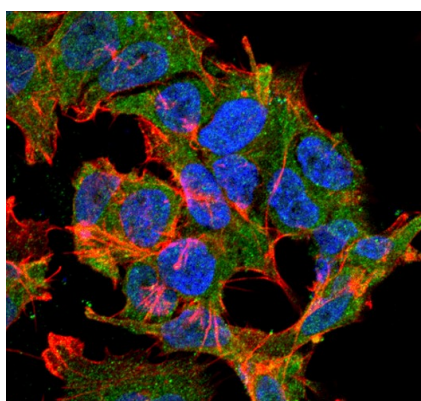
Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS (pH 7.4), 50% Glycerol and 0.09% Sodium azide
Preservative	0.09% Sodium azide
Stabilizer	50% Glycerol
Concentration	1 mg/ml

Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

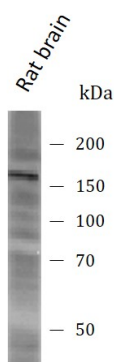
Gene Symbol	SHANK2
Gene Full Name	SH3 And Multiple Ankyrin Repeat Domains 2
Background	This gene encodes a protein that is a member of the Shank family of synaptic proteins that may function as molecular scaffolds in the postsynaptic density of excitatory synapses. Shank proteins contain multiple domains for protein-protein interaction, including ankyrin repeats, and an SH3 domain. This particular family member contains a PDZ domain, a consensus sequence for cortactin SH3 domain-binding peptides and a sterile alpha motif. The alternative splicing demonstrated in Shank genes has been suggested as a mechanism for regulating the molecular structure of Shank and the spectrum of Shank-interacting proteins in the postsynaptic densities of the adult and developing brain. Alterations in the encoded protein may be associated with susceptibility to autism spectrum disorder. Alternative splicing results in multiple transcript variants.
Function	Seems to be an adapter protein in the postsynaptic density (PSD) of excitatory synapses that interconnects receptors of the postsynaptic membrane including NMDA-type and metabotropic glutamate receptors, and the actin-based cytoskeleton. May play a role in the structural and functional organization of the dendritic spine and synaptic junction.
PTM	Glycoprotein, Phosphoprotein
Cellular Localization	Cell membrane, Cell projection, Cytoplasm, Membrane, Synapse

## Images



ARG24122 anti-SHANK2 (pan) antibody [N23b/49] ICC/IF image

Immunofluorescence: SK-N-BE stained with ARG24122 anti-SHANK2 (pan) antibody [N23b/49] at 1:100 dilution.



ARG24122 anti-SHANK2 (pan) antibody [N23b/49] WB image

Western blot: Rat brain stained with ARG24122 anti-SHANK2 (pan) antibody [N23b/49] at 1:1000 dilution.