

ARG24124 anti-SHANK1 antibody [N22/21]

Package: 50 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [N22/21] recognizes SHANK1
Tested Reactivity	Hu, Ms, Rat
Tested Application	ICC/IF, IHC-P, WB
Specificity	190-220 kDa (alternative splice variants). No cross-reactivity against Shank2 or Shank3.
Host	Mouse
Clonality	Monoclonal
Clone	N22/21
Isotype	IgG1
Target Name	SHANK1
Species	Rat
Immunogen	Fusion protein amino acids 469-691 of Rat Shank1
Conjugation	Un-conjugated
Alternate Names	SHANK1; SH3 And Multiple Ankyrin Repeat Domains 1; SSTRIP; Somatostatin Receptor-Interacting Protein; SPANK-1; SH3 And Multiple Ankyrin Repeat Domains Protein 1; SSTR-Interacting Protein; Synamon; SYNAMON; Shank1

Application Instructions

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

Properties

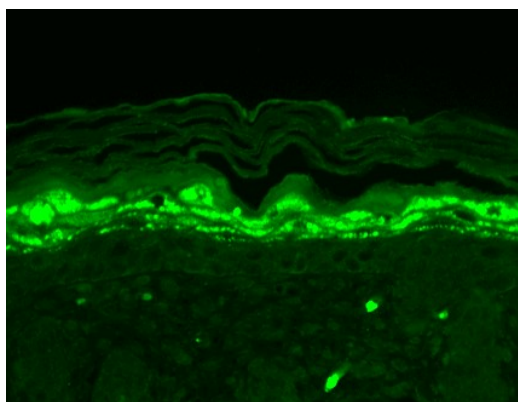
Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS (pH 7.4), 50% Glycerol and 0.09% Sodium azide
Preservative	0.09% Sodium azide
Stabilizer	50% Glycerol
Concentration	1 mg/ml

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

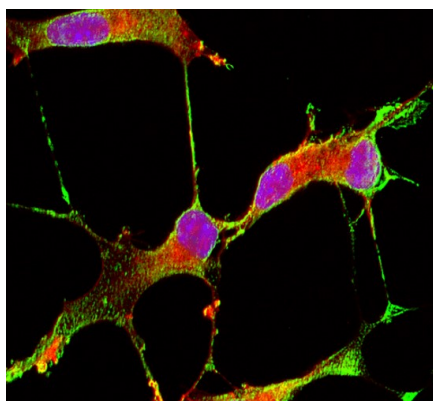
Gene Symbol	SHANK1
Gene Full Name	SH3 And Multiple Ankyrin Repeat Domains 1
Background	This gene encodes a member of the SHANK (SH3 domain and ankyrin repeat containing) family of proteins. Members of this family act as scaffold proteins that are required for the development and function of neuronal synapses. Deletions in this gene may be associated with autism spectrum disorder in males.
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 via complexes with GKAP/PSD-95 and Homer, respectively, and the actin-based cytoskeleton. Plays a role in the structural and functional organization of the dendritic spine and synaptic junction.
Calculated Mw	224 kDa
PTM	Methylation, Phosphoprotein
Cellular Localization	Cytoplasm, Synapse

Images



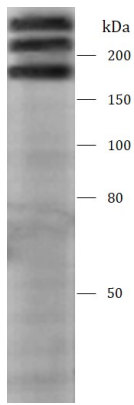
ARG24124 anti-SHANK1 antibody [N22/21] IHC-P image

Immunohistochemistry: Mouse Backskin stained with ARG24124 anti-SHANK1 antibody [N22/21] at 1:100 dilution.



ARG24124 anti-SHANK1 antibody [N22/21] ICC/IF image

Immunofluorescence: SH-SY5Y stained with ARG24124 anti-SHANK1 antibody [N22/21] at 1:50 dilution.



ARG24124 anti-SHANK1 antibody [N22/21] WB image

Western blot: Rat brain stained with ARG24124 anti-SHANK1 antibody [N22/21] at 1:1000 dilution.