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anti-SHANK1 antibody (AA 469-691) (Atto 390)





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Over	view

Quantity:	100 μg
Target:	SHANK1
Binding Specificity:	AA 469-691
Reactivity:	Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This SHANK1 antibody is conjugated to Atto 390
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Antibody Array (AA)

Product Details

Target Details

Target:

Immunogen:	Fusion protein amino acids 469-691 (SH3/PDZ domains) of rat Shank1	
Clone:	N22-21 (Formerly S22-21)	
Isotype:	lgG1	
Specificity:	Detects ~190-220 kDa (alternative splice variants). No cross-reactivity against Shank2 or Shank3.	
Cross-Reactivity:	Human, Mouse, Rat	
Purification:	Protein G Purified	

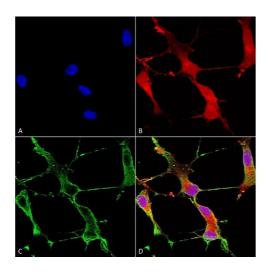
Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn | International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com | Page 1/4 | Product datasheet for ABIN2483699 | 09/11/2023 | Copyright antibodies-online. All rights reserved.

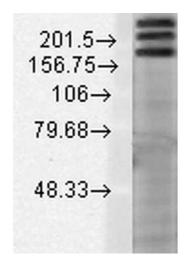
SHANK1

Target Details

Alternative News a	QUANTA (QUANTA Products)	
Alternative Name:	SHANK1 (SHANK1 Products)	
Background:	Shank proteins make up a family of scaffold proteins identified through their interaction with a	
	variety of membrane and cytoplasmic proteins (1). Shank proteins at postsynaptic sites of	
	excitatory synapses play roles in signal transmission into the postsynaptic neuron. Studies	
	suggest that Shank2 is expressed in the neurons of the developing retina, and could play a role	
	in the neuronal differentiation of the developing retina (2). Other recent studies suggest that the	
	disruption of glutamate receptors at the Shank postsynaptic platform could contribute to the	
	destruction of the postsynaptic density, which underlies the synaptic dysfunction and loss in	
	Alzheimer's disease (3).	
Gene ID:	78957	
NCBI Accession:	NP_113939	
UniProt:	Q9WV48	
Pathways:	Synaptic Membrane, Maintenance of Protein Location	
Application Details		
Application Notes:	• WB (1:1000)	
	• IHC (1:1000)	
	• ICC/IF (1:100)	
	optimal dilutions for assays should be determined by the user.	
Comment:	1 μg/ml of ABIN2483699 was sufficient for detection of Shank1 in 10 μg of rat brain lysate by	
	colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.	
Restrictions:	For Research Use only	
Handling		
Format:	Liquid	
Concentration:	1 mg/mL	
Buffer:	PBS pH 7.4, 50 % glycerol, 0.09 % sodium azide, Storage buffer may change when conjugated	
Preservative:	Sodium azide	
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which	
	should be handled by trained staff only.	
Storage:	4 °C	

Validation report #103875 for Immunofluorescence (IF)



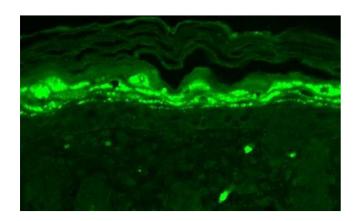


Immunocytochemistry

Image 1. Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-SHANK1 Monoclonal Antibody, Clone S22-21 (ABIN2483699). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4 % PFA for 15 min. Primary Antibody: Mouse Anti-SHANK1 Monoclonal Antibody (ABIN2483699) at 1:50 for overnight at 4 °C with slow rocking. Secondary Antibody: AlexaFluor 488 at 1:1000 for 1 hour at RT. Counterstain: Phalloidin-iFluor 647 (red) F-Actin stain, Hoechst (blue) nuclear stain at 1:800, 1.6 mM for 20 min at RT. (A) Hoechst (blue) nuclear stain. (B) Phalloidin-iFluor 647 (red) F-Actin stain. (C) SHANK1 Antibody (D) Composite.

Western Blotting

Image 2. Western Blot analysis of Rat brain membrane lysate showing detection of SHANK1 protein using Mouse Anti-SHANK1 Monoclonal Antibody, Clone S22-21 . Load: 15 μg. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Mouse Anti-SHANK1 Monoclonal Antibody at 1:1000 for 2 hours at RT. Secondary Antibody: Sheep Anti-Mouse IgG: HRP for 1 hour at RT.



Immunohistochemistry

Image 3. Immunohistochemistry analysis using Mouse Anti-SHANK1 Monoclonal Antibody, Clone S22-21. Tissue: backskin. Species: Mouse. Fixation: Bouin's Fixative and paraffin-embedded. Primary Antibody: Mouse Anti-SHANK1 Monoclonal Antibody at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT. Localization: Filaggrin-like staining (upper layer aggregations of staining).