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anti-SHANK1 antibody (AA 469-691) (PerCP)





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

Target Details

Target: SHANK1

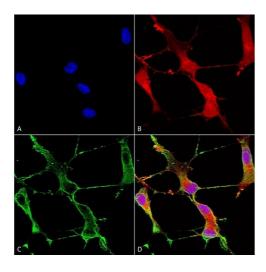
Target Details

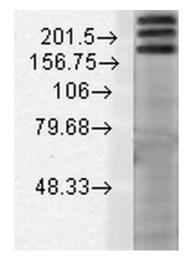
Alternative Names	QUANIZI (QUANIZI Dredusto)
Alternative Name:	SHANK1 (SHANK1 Products)
Background:	Shank proteins make up a family of scaffold proteins identified through their interaction with a
	variety of membrane and cytoplasmic proteins (1). Shank proteins at postsynaptic sites of
	excitatory synapses 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) antimal dilutions for account should be determined by the user.
	optimal dilutions for assays should be determined by the user.
Comment:	1 μg/ml of ABIN2483713 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

Storage Comment:

Conjugated antibodies should be stored at 4°C

Images



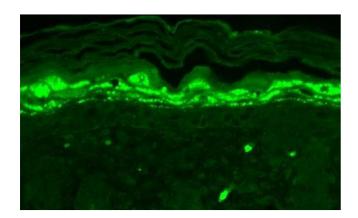


Immunocytochemistry

Image 1. Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-SHANK1 Monoclonal Antibody, Clone S22-21 (ABIN2483713). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4 % PFA for 15 min. Primary Antibody: Mouse Anti-SHANK1 Monoclonal Antibody (ABIN2483713) 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).