

Rabbit SHANK1a Polyclonal Antibody | anti-SHANK1 antibody

Anti-SHANK1a (C-terminus) Antibody

CATALOG # AAA14230	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Western Blot
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PRODUCT SYNONYMS

SHANK1a; Polyclonal Antibody; Anti-SHANK1a (C-terminus) Antibody; SH3 and multiple ankyrin repeat domains 1; GKAP/SAPAP interacting protein; Somatostatin receptor interacting protein; SSTR interacting protein; SSTRIP; SPANK1; anti-SHANK1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Reacts with the C-terminal region of human, mouse and rat Shank1a protein.
Form/Format	Liquid; Antigen Affinity Purified; PBS + 0.02% NaN ₃
Applicable Applications for anti-SHANK1 antibody	WB (Western Blot)
Application Notes	WB: 1:500-1:1000
Immunogen Species	Human
Immunogen	Synthetic peptide corresponding to amino acids from the C-terminal region of human Shank1a protein
Country of Origin	United States
Preparation and Storage	Recommended that the undiluted antibody be aliquoted into smaller working volumes (10-30 uL/vial depending on usage) upon arrival and stored long term at -20 degree C or -80 degree C, while keeping a working aliquot stored at 4 degree C for short term. Avoid freeze/thaw cycles. Stable for at least 1 year. After date of receipt, stable for at least 1 year at -20 degree C.

IMAGES



WB (Western Blot)

Western Blot of rat brain lysate showing specific immunolabeling of SHANK1 at 1:500 dilution.



IHC (Immunohistochemistry)

Immunohistochemistry of retinal tissue showing specific staining of Shank at 1:800 dilution. Images are 2048 X 2048, 12 bit, collected with a 40X water objective, 10 stacks 0.55 um per stack.



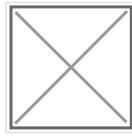
IHC (Immunohistochemistry)

Immunohistochemistry showing colocalization of Shank puncta with VGLUT1 puncta in the intragranular mossy fibers and the stratum moleculare of the dentate gyrus. Confocal immunofluorescence stainings of coronal sections from wild-type mice probed with the Shank1 (white; green in merge) and VGLUT1 (white; red in merge) antibodies. The upper rows (large squares) show the enlarged region (3 = SM; 2 = SG; 1 = PL; scale bar = 100 μ m), the bottom rows (small rectangles) show further enlargements (indicated in up



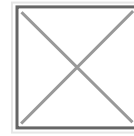
IHC (Immunohistochemistry)

Immunohistochemistry showing synaptic distribution of Shank1/2 and somato-synaptic distribution of Shank3 in the mouse hippocampus, codistribution with VGLUT1, no codistribution with VGLUT2. 5x magnification of hippocampus. Immunofluorescence staining of coronal sections from wild-type mice probed with Shank1-3 (white; green in merge) and VGLUT1 (white; red in merge) antibodies; green arrow points toward the intragranular mossy fibers where there is a prominent synaptic stain of Shank3; scale bar =300 μ m. I



IHC (Immunohistochemistry)

Immunohistochemistry of mouse retinal sections showing specific staining of SHANK1.



ICC (Immunocytochemistry)

Immunocytochemistry of hippocampal neurons DIV 14 grown under control, ASD1, and ASD2 conditions. The fluorescence intensity of Shank positive puncta was measured using antibodies specific for Shank1, Shank2, and Shank3. Exemplary images (upper panel) and quantification of average puncta signal intensity of 10 cells per condition (lower panel). Merged images show additional DAPI staining of the nucleus. Neurons grown under ASD1 conditions show a significant decrease of synaptic Shank proteins, while neurons

ADDITIONAL INFORMATION

Related Product Information for anti-SHANK1 antibody	SHANK1a rabbit polyclonal primary antibody from the lab is produced in-house. It detects human, mouse, and rat SHANK1a and is antigen affinity purified. It is great for use in WB. Shank is a novel family of postsynaptic density proteins (PSD) that bind to PSD-95-associated protein GKAP. Its putative function is to act as a scaffold protein in the PSD to cross-link NMDA receptors/PSD-95 complexes and couple them to regulators of the actin cytoskeleton. Shank1a is a splice variant of Shank1.
Product Categories/Family for anti-SHANK1 antibody	Primary Antibody

NCBI AND UNIPROT INFORMATION

NCBI GI #	120587025
NCBI GeneID	50944
NCBI Accession #	NP_057232.2
NCBI GenBank Nucleotide #	NM_016148.2
UniProt Accession #	Q9Y566; Q9NYW9; A8MXP5; B7WNY6
Molecular Weight	224,959 Da
NCBI Official Full Name	SH3 and multiple ankyrin repeat domains protein 1
NCBI Official Synonym Full Names	SH3 and multiple ankyrin repeat domains 1
NCBI Official Symbol	SHANK1
NCBI Official Synonym Symbols	SSTRIP; SPANK-1; synamon
NCBI Protein Information	SH3 and multiple ankyrin repeat domains protein 1; OTTHUMP00000174437; OTTHUMP00000174438; SSTR-interacting protein; somatostatin receptor-interacting protein
UniProt Protein Name	SH3 and multiple ankyrin repeat domains protein 1
UniProt Gene Name	SHANK1
UniProt Entry Name	SHAN1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/shank1a-antibody-western-blot-elisa/14230>