

Datasheet for ABIN7043626

anti-SHANK1 antibody (Intracellular)



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2 Images

Overview

Quantity:	25 µL
Target:	SHANK1
Binding Specificity:	AA 614-628, Intracellular
Reactivity:	Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SHANK1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: (C)RSQEGRQESRSDKAK, corresponding to amino acid residues 614-628 of rat Shank1
Isotype:	IgG
Cross-Reactivity (Details):	This antibody will recognize all known rat isoforms of Shank1 with the exception of isoform 2 (see Q9WV48-2).
Characteristics:	Anti-Shank1 Antibody is directed against an epitope of rat Shank1. Anti-Shank1 Antibody (ABIN7043626, ABIN7045152 and ABIN7045153)) can be used in western blot and immunohistochemistry applications. It has been designed to recognize Shank1 from human, rat, and mouse samples.
Purification:	Affinity purified on immobilized antigen.

Target Details

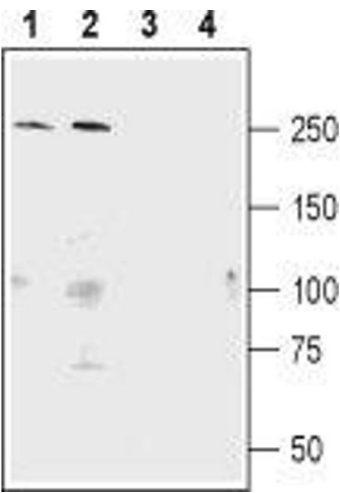
Target:	SHANK1
Alternative Name:	Shank1 (SHANK1 Products)
Background:	Alternative names: Shank1, SH3 and multiple ankyrin repeat domains protein 1, SPANK-1, GKAP/SAPAP-interacting protein, Somatostatin receptor-interacting protein, SSTR-interacting protein, Synamon
Gene ID:	78957
NCBI Accession:	NM_016148
UniProt:	Q9WV48
Pathways:	Synaptic Membrane , Maintenance of Protein Location

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

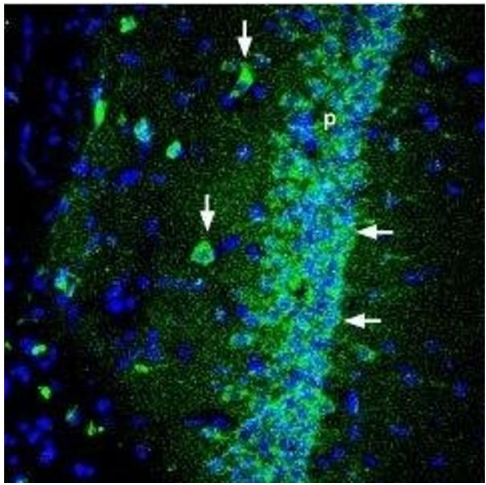
Handling

Format:	Lyophilized
Reconstitution:	25 µL, 50 µL or 0.2 mL double distilled water (DDW), depending on the sample size.
Concentration:	0.8 mg/mL
Buffer:	Reconstituted antibody contains phosphate buffered saline (PBS), pH 7.4, 1 % BSA, 0.05 % Sodium azide.
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:	RT, 4 °C, -20 °C
Storage Comment:	<p>Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C.</p> <p>Storage after reconstitution: The reconstituted solution can be stored at 4°C for up to 1 week. For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and thawing. Centrifuge all antibody preparations before use (10000 x g 5 min).</p>



Western Blotting

Image 1. Western blot analysis of mouse (lanes 1 and 3) and rat (lanes 2 and 4) brain lysate: - 1,2. Anti-Shank1 Antibody (ABIN7043626, ABIN7045152 and ABIN7045153), (1:400).3,4. Anti-Shank1 Antibody, preincubated with Shank1 Blocking Peptide (#BLP-PZ011).



Immunohistochemistry

Image 2. Expression of Shank1 in rat hippocampus - Immunohistochemical staining of perfusion-fixed frozen rat brain sections using Anti-Shank1 Antibody (ABIN7043626, ABIN7045152 and ABIN7045153), (1:300), followed by goat anti-rabbit-AlexaFluor-488 secondary antibody. Shank1 staining (green) is detected in interneurons (vertical arrows) and in the pyramidal layer (P, horizontal arrows). Nuclei are stained with DAPI (blue).