# Mouse Shank1 Monoclonal Antibody | anti-Shank1 antibody

SHANK1 Antibody: PerCP

| CATALOG # | HOST | REACTIVITY | APPLICATIONS |
|---|---|---|---|
| **AAA103394** | **Mouse** | **Mouse, Human, Rat** | **Immunohistochemistry, Western Blot** |

## PRODUCT SYNONYMS

Shank1; Monoclonal Antibody; SHANK1 Antibody: PerCP; Spank1; Sstrip; GKAP/SAPAP interacting protein; OTTHUMP00000174437; SH3 and multiple ankyrin repeat domains 1; SH3 and multiple ankyrin repeat domains protein 1; SH3/ankyrin domain gene 1; SHAN1_HUMAN; SHANK 1; Shank1a; anti-Shank1 antibody

## PRODUCT SPECIFICATIONS

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|---|---|
| **Host** | Mouse |
| **Reactivity** | Mouse, Human, Rat |
| **Clonality** | Monoclonal |
| **Isotype** | IgG1 |
| **Clone Number** | S22-21 |
| **Form/Format** | Protein G Purified |
| **Concentration** | 1mg/mL (varies by lot) |
| **Sequence Length** | 2167 |
| **Applicable Applications for anti-Shank1 antibody** | IHC (Immunohistochemistry), WB (Western Blot) |
| **Conjugate** | PerCP |
| **Storage Buffer** | PBS pH7.4, 50% glycerol, 0.09% sodium azide |
| **Preparation and Storage** | -20 degree C |

## IMAGES

**WB (Western Blot)**
Western Blot analysis of Rat brain membrane lysate showing detection of SHANK1 protein using Mouse Anti-SHANK1 Monoclonal Antibody, Clone S22-21. Load: 15 ug. 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.

**IHC (Immunohistochemistry)**
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).

## ADDITIONAL INFORMATION

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| **Related Product Information for anti-Shank1 antibody** | **Background Info:** Detects ~190-220 kDa (alternative splice variants). No cross-reactivity against Shank2 or Shank3.<br><br>**Scientific Background:** Shank proteins make up a family of scaffold proteins identified through their interaction with a variety of membrane and cytoplasmic proteins (3). Shank1 specifically might be relevant to human autism spectrum disorders, due to its differential role in specific cognitive processes, along with its importance for synapse structure and function in vivo (4). |
| **Product Categories/Family for anti-Shank1 antibody** | Neuroscience; Scaffolds |
| **References** | 1. Hille B. (2001) Ion Channels of Excitable Membranes, 3rd Ed., Sinauer Associated Inc.: Sunderland, MA USA. 2. www.iochannels.org 3. Sheng M., and Kim E. (2000) Journal of Cell Science. 113: 1851-1856. 4. Hung A.Y., et al. (2008) J Neurosci. 28(7): 1697-1708. |

## NCBI AND UNIPROT INFORMATION

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|---|---|
| **NCBI GI #** | 77627981 |
| **NCBI GeneID** | 78957 |
| **NCBI Accession #** | NP_113939.2 |
| **NCBI GenBank Nucleotide #** | NM_031751.2 |
| **UniProt Accession #** | Q9WV48; Q9QZZ8; Q9WU13; Q9WUE8 |
| **Molecular Weight** | 202,919 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** | Spank1; Sstrip; Shank1a |
| **NCBI Protein Information** | SH3 and multiple ankyrin repeat domains protein 1; SPANK-1; synamon; SSTR-interacting protein; SH3/ankyrin domain gene 1; GKAP/SAPAP interacting protein; GKAP/SAPAP-interacting protein; SAPAP-interacting protein synamon; somatostatin receptor-interacting protein |
| **UniProt Protein Name** | SH3 and multiple ankyrin repeat domains protein 1 |
| **UniProt Gene Name** | **Shank1** |
| **UniProt Synonym Gene Names** | Shank1; SSTR-interacting protein; SSTRIP |
| **UniProt Entry Name** | SHAN1_RAT |

**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/monoclonal/shank1-antibody-clone-s22-21-immunohistochemistry-western-blot-elisa/103394