SH3 and multiple ankyrin repeat domains protein 1 Antibody, Rabbit Polyclonal Antibody

Catalog Number: 18-001-30036

Related Product Names:
- SHANK1 antibody; SHANK1; SSTRIP; SPANK-1; synamon; SH3 and multiple ankyrin repeat domains protein 1
- Shank1; Somatostatin receptor-interacting protein; SSTR-interacting protein; SSTRIP; SH3 and multiple ankyrin repeat domains 1

- Gene Information -
Information in yellow represents specific gene information and does not necessarily represent specific product details. For more information please contact sales@genwaybio.com.

<table>
<thead>
<tr>
<th>Gene Name</th>
<th>Gene Name Synonym</th>
<th>Gi #</th>
<th>NCBI Acc #</th>
<th>Swiss Prot Acc #</th>
<th>Length (aa)</th>
<th>Mol. Weight (Da)</th>
<th>Chrom Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>SHANK1</td>
<td>SSTRIP; SPANK-1; synamon</td>
<td>11968152</td>
<td>NP_057232.1</td>
<td>Q9Y566</td>
<td>2161</td>
<td>225021</td>
<td>19q13.3</td>
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</tbody>
</table>

- Immunogen: Reacts with residues [ERLLREYPQSEKGV] of the N terminus of the Shank1a protein.
- Source/Host: Rabbit
- Purity/Purification: Affinity Purified
- Clonality: Polyclonal
- Format: PBS containing 0.02% sodium azide.
- Storage: 2 degree C to 8 degree C for 3 months and at -20 degree C for long term. Avoid frequent freeze and thaw.
- Stability: 12 months at -20 degree C.
- Shipping: Products may be shipped on ice pack or dry ice.

APPLICATIONS for SHANK1 ANTIBODY:
- ELISA, WB: Tested
- ICC, IHC: Not Tested

TESTING: (secondary reagents and protocols)

Western Blot: Western Blot analysis of Shank1a in rat brain lysate with anti-Shank 1a at a 1:500 dilution. (anti-SHANK1)

SHANK1 antibody Western Blot image
**SHANK1 ANTIBODY TARGET DESCRIPTION:**

**Synonym Names for SHANK1 antibody:** SHANK1; SSTRIP; SPANK-1; synamon; Shank1; Somatostatin receptor-interacting protein; SSTR-interacting protein; SSTRIP; SH3 and multiple ankyrin repeat domains 1

**Function:** Seems to be an adapter protein in the postsynaptic density (PSD) of excitatory synapses that interconnects receptors of the postsynaptic membrane including NMDA-type and metabotropic glutamate receptors via complexes with GKAP/PSD-95 and Homer, respectively, and the actin-based cytoskeleton. May play a role in the structural and functional organization of the dendritic spine and synaptic junction.

**Subunit:** May homomultimerize via its SAM domain (By similarity). Interacts with SSTR2 C-terminus via the PDZ domain. Interacts with SPTAN1, HOMER1 and DLGAP1/GKAP isoforms 1 and 2 (By similarity). Is part of a complex with DLG4/PSD-95 and DLGAP1/GKAP (By similarity). Interacts with BAIAP2.

**Subcellular Location:** Cytoplasmic; postsynaptic density of neuronal cells (By similarity).

**Tissue Specificity:** Expressed in brain particularly in the amygdala, hippocampus, substantia nigra and thalamus. Isoform 2 seems to be expressed ubiquitously.

**Similarity:** Belongs to the SHANK family.

**Similarity:** Contains 6 ANK repeats.

**Similarity:** Contains 1 PDZ (DHR) domain.

**Similarity:** Contains 1 SAM (sterile alpha motif) domain.

**Similarity:** Contains 1 SH3 domain.

**OMIM:** 604999; gene. [NCBI / EBI]

**BACKGROUND REFERENCES for SHANK1 ANTIBODY:**

Background references for antibody target are not specific to GenWay products
Crystal structure of the Shank PDZ-ligand complex reveals a class I PDZ interaction and a novel PDZ-PDZ dimerization

The Shank family of postsynaptic density proteins interacts with and promotes synaptic accumulation of the beta PIX guanine nucleotide exchange factor for Rac1 and Cdc42

The insulin receptor substrate IRSp53 links postsynaptic shank1 to the small G-protein cdc42

Dynamin isoform-specific interaction with the shank/ProSAP scaffolding proteins of the postsynaptic density and actin cytoskeleton

Synaptic scaffolding proteins in rat brain. Ankyrin repeats of the multidomain Shank protein family interact with the cytoskeletal protein alpha-fodrin

Somatostatin receptor interacting protein defines a novel family of multidomain proteins present in human and rodent brain.

The Shank family of scaffold proteins.

The insulin receptor substrate IRSp53 links postsynaptic shank1 to the small G-protein cdc42.

Order Confirmation: Sales order confirmations are sent out upon the receipt of all orders. Please contact GenWay if you do not receive a confirmation within 1 business day of submitting your order.

Precautions: SHANK1 antibody is for in vitro research use only. Not for use in diagnostics or therapeutic procedures.

Important Notes: During shipment, small volumes of SHANK1 antibody vial. For products with volumes of 200 µL or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap. Actual concentration, volume and quantity will be printed on the vial’s label. Please refer to the vials label for this information.

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