



## Rabbit Anti-SHANK 1 antibody

SL0211R

<b>Product Name:</b>	SHANK 1
<b>Chinese Name:</b>	富含脯氨酸突触相关蛋白SHANK1抗体
<b>Alias:</b>	GKAP/SAPAP interacting protein; SH3 and multiple ankyrin repeat domains 1; SH3 and multiple ankyrin repeat domains protein 1; SHANK-1; Somatostatin receptor interacting protein; Somatostatin receptor-interacting protein; SH3 and multiple ankyrin repeat domains protein 1; SPANK 1; SSTR-interacting protein; Shank1; SPANK1; SSTR interacting protein; SSTRIP; SHAN1_HUMAN; Synamon.
<b>文献引用</b> <b>PubMed</b> :	<b>Specific References(1)</b> SL0211R has been referenced in 1 publications. [IF=7.26]Zhang, Chi, et al. "The potential use of H102 peptide-loaded dual-functional nanoparticles in the treatment of Alzheimer's disease." Journal of Controlled Release (2014).WB;Mouse. <a href="#">PubMed:25102404</a>
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	225kDa
<b>Cellular localization:</b>	The cell membrane
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human Shank1:101-200/2161
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.

<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	<p>The mechanisms underlying the molecular assemblage of molecules at the synapse are not well understood. Recently, a number of novel anchoring/scaffold proteins that are associated with postsynaptic density (PSD) proteins have been isolated. SHANK1, SHANK2 and SHANK3 constitute a family of proteins that may function as molecular scaffolds in the PSD. SHANK is made of five domain/regions that are probably involved in protein-protein interactions: ankyrin repeats, an SH3 domain, a PDZ domain, a SAM domain, and a proline rich region. SHANK interacts directly with GKAP or SAPAP via its PDZ domain, thus potentially bridging the N-methyl-D-aspartate receptor (NMDA)-PSD-95-GKAP complex.</p> <p><b>Function:</b> 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. Plays a role in the structural and functional organization of the dendritic spine and synaptic junction.</p> <p><b>Subunit:</b> May homomultimerize via its SAM domain (By similarity). Interacts with the C-terminus of SSTR2 via the PDZ domain. Interacts with IGSF9, SHARPIN, SPTAN1, HOMER1 and DLGAP1/GKAP isoforms 1 and 2 (By similarity). Part of a complex with DLG4/PSD-95 and DLGAP1/GKAP (By similarity). Interacts with BAIAP2.</p> <p><b>Subcellular Location:</b> May homomultimerize via its SAM domain (By similarity). Interacts with the C-terminus of SSTR2 via the PDZ domain. Interacts with IGSF9, SHARPIN, SPTAN1, HOMER1 and DLGAP1/GKAP isoforms 1 and 2 (By similarity). Part of a complex with DLG4/PSD-95 and DLGAP1/GKAP (By similarity). Interacts with BAIAP2.</p> <p><b>Tissue Specificity:</b> Expressed in brain particularly in the amygdala, hippocampus, substantia nigra and thalamus. Isoform 2 seems to be expressed ubiquitously.</p> <p><b>Similarity:</b> Belongs to the SHANK family. Contains 6 ANK repeats. Contains 1 PDZ (DHR) domain. Contains 1 SAM (sterile alpha motif) domain. Contains 1 SH3 domain.</p> <p><b>SWISS:</b></p>

Q9Y566

**Gene ID:**  
50944

**Database links:**

[Entrez Gene: 50944](#)Human

[Entrez Gene: 243961](#)Mouse

[Entrez Gene: 78957](#)Rat

[Omin: 604999](#)Human

[SwissProt: Q9Y566](#)Human

[SwissProt: D3YZU1](#)Mouse

[SwissProt: Q9WV48](#)Rat

[Unigene: 274255](#)Human

[Unigene: 360368](#)Mouse

[Unigene: 225968](#)Rat

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

有学者认为:shank-

1似乎是具有兴奋性突触PSD中的连接蛋白,它可以连接后突触膜受体,包括NMDA-Type和谷氨酸受体等。在树突旋转和突触连接的有机体功能和结构方面起重要作用。shank1 主要表达在脑组织内,属于shank家族。