

bs-0211R**[Primary Antibody]****SHANK1 Rabbit pAb**

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— DATASHEET —

Host: Rabbit	Isotype: IgG	Applications: WB (1:500-2000)
Clonality: Polyclonal		IHC-P (1:100-500)
GeneID: 50944	SWISS: Q9Y566	IHC-F (1:100-500)
Target: SHANK1		IF (1:100-500)
Immunogen: KLH conjugated synthetic peptide derived from human Shank1: 101-200/2161.		ELISA (1:5000-10000)
Purification: affinity purified by Protein A		Reactivity: (predicted: Human, Mouse, Rat)
Concentration: 1mg/ml		
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.		Predicted MW.: 225 kDa
Background: 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.		Subcellular Location: Cell membrane

— SELECTED CITATIONS —

- **[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. 25102404