555 Store at -200

SHANK3 (D5K6R) Rabbit mAb



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Applications: WB, IP, IF-F	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 220	Source/Isotype: Rabbit IgG	UniProt ID: #Q9BYB0	Entrez-Gene Id: 85358
Product Usage Information	Ap	Application			Dilution	
	We	estern Blotting		1:1000		
	Im	munoprecipitation			1:50	
	Im	Immunofluorescence (Frozen)			1:400	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity / Sensi	tivity SH/	SHANK3 (D5K6R) Rabbit mAb recognizes endogenous levels of total SHANK3 protein.				
Source / Purificati		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ile1210 of human SHANK3 protein.				
Background The SHANK family proteins, also known as proline-rich synapse-associated pro SHANK2, and SHANK3. SHANK proteins act as scaffolds at the neuronal post-where they play a critical role in PSD assembly of excitatory synapses during d recruitment of SHANK proteins to the synapse is independent of their interaction synaptic targeting of SHANK1 is mediated by interactions between its PDZ don At the synapse, SHANK proteins interact with NMDA receptors and metabotrop complexes (5). Research studies have proposed the involvement of SHANK proteins interactions between its PDZ don At the synapse, SHANK proteins interact with NMDA receptors and metabotrop complexes (5). Research studies have proposed the involvement of SHANK proteins interactions in the synapse is independent of their interaction synapse.					neuronal post-synapti apses during developi their interaction with I en its PDZ domain and and metabotropic gluta	c density (PSD) (1), ment (2). While Homer (3), proper d PSD proteins (4). mate receptor
Background Refe	2. B 3. B 4. S	 Grabrucker, A.M. et al. (2011) Trends Cell Biol 21, 594-603. Boeckers, T.M. et al. (1999) J Neurosci 19, 6506-18. Boeckers, T.M. et al. (2005) J Neurochem 92, 519-24. Sala, C. et al. (2001) Neuron 31, 115-30. Boeckers, T.M. et al. (2002) J Neurochem 81, 903-10. 				

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS,

0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting IP: Immunoprecipitation IF-F: Immunofluorescence (Frozen)

Cross-Reactivity Key

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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