

:19046

PSD93 (D4Z4D) Rabbit mAb



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Applications: W, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 110	Source/Isotype: Rabbit IgG	UniProt ID: #Q15700	Entrez-Gene Id: 1740	
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:50		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
Specificity/Sensitivity		PSD93 (D4Z4D) Rabbit mAb recognizes endogenous levels of total PSD93 protein.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro321 of human PSD93 protein.					
Background		Postsynaptic Density Protein 93 (PSD93) is a member of the PSD subfamily of the membrane-associated guanylate kinase (PSD-MAGUK) proteins. Structurally, it most closely resembles PSD95, consisting of an N-terminal variable segment followed by three PDZ domains, an SH3 domain, and an inactive guanylate kinase (GK) domain (1,2). PSD93 is expressed in neuronal cells and located at the synapse where it interacts with neuronal receptors and proteins including the NMDA receptor (2-4), K ⁺ channels (5,6), and the AMPA receptor (7) to regulate their membrane localization and neuronal signaling. Research studies have implicated PSD93 in postsynaptic related persistent pain induction, making PSD93 a potential target for treatment of this syndrome (3).					
Background References		 Brenman, J.E. et al. (1996) J Neurosci 16, 7407-15. Kim, E. et al. (1996) Neuron 17, 103-13. Tao, Y.X. et al. (2003) J Neurosci 23, 6703-12. Niethammer, M. et al. (1996) J Neurosci 16, 2157-63. Kim, E. et al. (1995) Nature 378, 85-8. Leyland, M.L. and Dart, C. (2004) J Biol Chem 279, 43427-36. Elias, G.M. et al. (2006) Neuron 52, 307-20. 					

Species Reactivity Species

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

W: Western Blotting **IP:** Immunoprecipitation

H: Human M: Mouse R: Rat

Cross-Reactivity Key

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