

#2507 Store at -20C

PSD95 Antibody



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB, IP	H M R	Endogenous	95	Rabbit	#P78352	1742

Product Usage Information	Application	Dilution
	Western Blotting	1:1000
	Immunoprecipitation	1:50
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.	
Specificity / Sensitivity	PSD95 Antibody detects endogenous levels of total PSD95 protein.	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues of human PSD95. Antibodies are purified by protein A and peptide affinity chromatography.	
Background	Postsynaptic Density protein 95 (PSD95) is a member of the membrane-associated guanylate kinase (MAGUK) family of proteins. These family members consist of an amino-terminal variable segment followed by three PDZ domains, an SH3 domain, and an inactive guanylate kinase (GK) domain. PSD95 is a scaffolding protein involved in the assembly and function of the postsynaptic density complex (1-2). PSD95 participates in synaptic targeting of AMPA receptors through an indirect manner involving stargazin and related transmembrane AMPA receptor regulatory proteins (TARPs) (3). It is implicated in experience-dependent plasticity and plays an indispensable role in learning (4). Mutations in PSD95 are associated with autism (5).	
Background References	1. Cao, J. et al. (2005) <i>J. Cell Biol.</i> 168, 117-26. 2. Chetkovich, D.M. et al. (2002) <i>J. Neurosci.</i> 22, 6415-25. 3. Cai, C. et al. (2006) <i>J. Biol. Chem.</i> 281, 4267-73. 4. Yao, W.D. et al. (2004) <i>Neuron</i> 41, 625-38. 5. Cline, H. (2005) <i>Curr. Biol.</i> 15, R203-5.	

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
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: <i>D. melanogaster</i> X: <i>Xenopus</i> Z: zebrafish B: bovine Dg: dog Pg: pig Sc: <i>S. cerevisiae</i> Ce: <i>C. elegans</i> Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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