PSD95 (D27E11) XP® Rabbit mAb



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Applications: W, W-S, IF-F, IF-IC	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 95	Source/Isotype: Rabbit IgG	UniProt ID: #P78352	Entrez-Gene Id: 1742
Product Usage Information		Application			Dilution	
		Western Blotting			1:1000	
		Simple Western™			1:1	0 - 1:50
		Immunofluorescence	(Frozen)		1:1	00 - 1:400
		Immunofluorescence	(Immunocytochem	istry)	1:2	00
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.				
		For a carrier-free (BSA	A and azide free) ver	sion of this product see	product #37657.	
Specificity/Sensitivity		PSD95 (D27E11) XP [®] Rabbit mAb detects endogenous levels of total PSD95 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gln53 of human PSD95.				
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 Reactiv	/ity	Species reactivity is de	etermined by testin	g in at least one approve	ed 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 W-S: Simple Western™ IF-F: Immunofluorescence (Frozen) IF-IC:				

Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key

H: Human M: Mouse R: Rat

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