Phospho-PSD95 (Ser295) (A8F8Z) Rabbit mAb



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Applications: WB, W-S	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 95	Source/Isotype: Rabbit IgG	UniProt ID: #P78352	Entrez-Gene Id: 1742	
Product Usage	Application			Dilution			
Information	We	estern Blotting			1:1000		
	Sir	mple Western™			1:10 - 1:50		
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 / Sensitiv		ospho-PSD95 (Ser29 en phosphorylated a	295) (A8F8Z) Rabbit mAb recognizes endogenous levels of PSD95 protein only at Ser295.				
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ser295 of human PSD95 protein.					esponding to	
Background	(MA follo a so PSI and dep	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).					
	exci	JNK1 phosphorylates PSD95 at Ser295, enhancing synaptic accumulation of PSD95 and potentiating excitatory post-synaptic currents through PSD95's increased ability to recruit AMPA receptors. In addition, synaptic depression requires dephosphorylation of Ser295 (6).					
Background Referer	ground References 1. Cao, J. et al. (2005) <i>J. Cell Biol</i> 168, 117-26.						

2. Chetkovich, D.M. et al. (2002) J. Neurosci. 22, 6415-25.

3. Cai, C. et al. (2006) J. Biol. Chem. 281, 4267-73.

4. Yao, W.D. et al. (2004) Neuron 41, 625-38. 5. Cline, H. (2005) Curr. Biol. 15, R203-5.

6. Kim, M.J. et al. (2007) Neuron 56, 488-502.

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

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

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

Applications Key WB: Western Blotting W-S: Simple Western™

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

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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