43919

Phospho-PSD95 (Tyr236/Tyr240) Antibody



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

Applications: W	Reactivity: R	Sensitivity: Endogenous	MW (kDa): 95	Source/Isotype: Rabbit	UniProt ID: #P78352	Entrez-Gene Io 1742
Product Usage Information		Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Phospho-PSD95 (Tyr236/Tyr240) Antibody detects endogenous levels of PSD95 protein only when phosphorylated at Tyr236 or Tyr240.				
Species predicte based on 100% s homology	ed to react sequence	Human, Mouse				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr236 and Tyr240 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).				
		phosphorylation sites using PhosphoScan [®] , PSD95 at Tyr236 and	s at Tyr236 and Tyr2 , CST's MS/MS platfo Tyr240 was observe	y is directed against pre 40 that were identified a orm for phosphorylation ed in extracts isolated fro ntification of tyrosine ph	at Cell Signaling Ted site discovery. Pho om ischemic rat bra	chnology (CST) esphorylation of in. The sites were
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. 6. Ballif, B.A. et al. (2008) <i>J. Proteome Res.</i> 7, 311-8.				
Snecies Reactivi	itv	Species reactivity is d	etermined by testin	g in at least one approve	od application (o.g.	wostorn blot)

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 W: Western Blotting

Cross-Reactivity Key R: Rat

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