:3919

Phospho-PSD95 (Tyr236/Tyr240) Antibody



Orders:	877-616-CELL (2355) orders@cellsignal.com
Support:	877-678-TECH (8324)
Web:	info@cellsignal.com cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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 Id: 1742	
Product Usage Information	9	Application Western Blotting			Dilution 1:1000		
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/Ser	nsitivity	Phospho-PSD95 (Tyr236/Tyr240) Antibody detects endogenous levels of PSD95 protein only when phosphorylated at Tyr236 or Tyr240.					
Species predic based on 100% homology	ted to react 6 sequence	Human, Mouse					
Source / Purifi	cation	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).					
		Phospho-PSD95 (Tyr236/Tyr240) Antibody is directed against previously unpublished PSD95 tyrosine phosphorylation sites at Tyr236 and Tyr240 that were identified at Cell Signaling Technology (CST) using PhosphoScan [®] , CST's MS/MS platform for phosphorylation site discovery. Phosphorylation of PSD95 at Tyr236 and Tyr240 was observed in extracts isolated from ischemic rat brain. The sites were independently found in a large-scale identification of tyrosine phosphorylation sites from murine brain (6).					
Background R	eferences	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.					
Species Reacti	vitv	Species reactivity is de	etermined by testin	n in at least one approve	ed application (e.g.	western blot)	
•	-	Species reactivity is determined by testing in at least one approved application (e.g., western blot).					
Western Blot E	suffer	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 K	ey	W: Western Blotting					
Cross-Reactivi	ty Key	R: Rat					
Trademarks ar	nd Patents	Cell Signaling Technol	hnology is a trademark of Cell Signaling Technology, Inc.				
		All other trademarks a more information.	are the property of	their respective owners.	Visit cellsignal.com	/trademarks for	

Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.