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

	ctivity: Sensitivity: M R Endogenous	MW (kDa): 100	Source/Isotype: Rabbit IgG	UniProt ID: #P42261	Entrez-Gene Id: 2890
Product Usage Information	Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:50	
Storage	Supplied in 10 mM sodiu 0.02% sodium azide. St		-		erol and less than
Specificity / Sensitivity	Phospho-AMPA Recepto AMPA Receptor 1 (GluA residue as Ser845, it is 3	1) protein only v	when phosphorylated at	Ser845. While the litera	
Source / Purification	Monoclonal antibody is residues surrounding Se		0		ide corresponding to
Background	AMPA- (α-amino-3-hydri aspartate) receptors are receptors (AMPARs) are tetramers to mediate the are implicated in synaps AMPARs, AMPARs that (alternative splicing, nuc phosphorylation) result i AMPARS. Research stud Alzheimer's, amyotrophi The activation of PKA re subunit GluR 1 at Ser84 dopamine receptors and Phosphorylation at eithe potentiation (LTP) correl with a dephosphorylatio LTD and LTP. Either Ser Furthermore, these mice adrenergic receptor, trim complex for localized cA	e the three main is e comprised of for e majority of fast se formation, stal lack GluR 2 are clear RNA editing in a very large no dies have implica- ic lateral sclerosis gulates the activi- ty inhibition of er Ser831 or Ser8 lates with increas n of GluR 1 (5). 1831 or Ser845 a e have memory of neric Gs protein,	families of ionotropic glu pur subunits (GluR 1-4), excitatory transmissions bilization, and plasticity (permeable to calcium (2 g) and post-translational umber of permutations, f ated activity changes in <i>J</i> is (ALS), stroke, and epi <i>v</i> ity of AMPA-type glutam Ser845 phosphorylation protein phosphatase 1/p 845 potentiates AMPA re- sed phosphorylation, wh Phosphomutant mice (S lone may support LTP, v deficiencies in spatial lead adenyl cyclase, PKA, G	tamate-gated ion chan which assemble as ho s in the central nervous 1). In contrast to GluR 2). Post-transcriptional modifications (glycosy ine-tuning the kinetic p AMPARs in a variety of lepsy (1). Nate receptors by phos is increased by activa rotein phosphatase 2A receptor ion channel fun ile long-term depressio er831Ala and Ser845A while only Ser845 is cri urning tasks (6,7). Asse luR 1, stargazin, and F	nels. AMPA mo- or hetero- s system. AMPARs 2-containing modifications lation, oroperties of f diseases including phorylation of the tion of D1-type A (3,4). or (LTD) correlates Na) show deficits in tical for LTD. embly of the β2- SD95 signaling
Background References	 Palmer, C.L. et al. (20) Cull-Candy, S. et al. (19) Roche, K.W. et al. (19) Snyder, G.L. et al. (200) Lee, H.K. et al. (2003) He, K. et al. (2009) Pri Joiner, M.L. et al. (2013) 	2006) Curr Opin 996) Neuron 16, 900) J Neurosci 2) Nature 405, 95) Cell 112, 631-4 roc Natl Acad Sc	Neurobiol 16, 288-97. 1179-88. 20, 4480-8. 5-9. 13. <i>i USA</i> 106, 20033-8.		
Species Reactivity	Species reactivity is dete	rmined by testin	g in at least one approve	ed application (e.g., we	estern blot).
Western Blot Buffer	IMPORTANT: For wester 0.1% Tween® 20 at 4°C			primary antibody in 5%	6 w/v BSA, 1X TBS,
Applications Key	WB: Western Blotting IP	: Immunoprecip	itation		

https://www.cellsignal.com/datasheet.jsp?productId=8084&images=0&protocol=0

1/1/24, 8:13 AM	I/1/24, 8:13 AM Phospho-AMPA Receptor 1 (GluA1) (Ser845) (D10G5) Rabbit mAb (#8084) Datasheet Without Images Cell S			
Cross-Reactivity	 H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster 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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