	AMPA Receptor (GluA2/3/4) Antibody							
	Stor				Orders:	877-616-CELL (2355) orders@cellsignal.com		
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	#2460				Web:	info@cellsignal.com cellsignal.com		
	#			3 Trasl	Lane Danvers Mas	sachusetts 01923 USA		
Fo	or Research Use Only. Not for							
	Applications: Reacti WB H M		MW (kDa): 100	Source: Rabbit	UniProt ID: #P42263, #P48058, #P42262	Entrez-Gene ld: 2892, 2893, 2891		
	Product Usage Information	Application Western Blotting			Dilution 1:1000			
	0	ů – Ever Standard – Ever Stand						
	Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA an 20°C. Do not aliquot the antibody.						
	Specificity / Sensitivity	detect GluA1.	, ,	U U		of total GluA2/3/4 protein. It may also		
	Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ser720 of human GluA2. Antibodies are purified by protein A and peptide affinity chromatography. AMPA- (α-amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid), kainate-, and NMDA- (N-methyl-D-aspartate) receptors are the three main families of ionotropic glutamate-gated ion channels. AMPA receptors (AMPARs) are comprised of four subunits (GluR 1-4), which assemble as homo- or hetero-tetramers to mediate the majority of fast excitatory transmissions in the central nervous system. AMPARs are implicated in synapse formation, stabilization, and plasticity (1). In contrast to GluR 2-containing AMPARs, AMPARs that lack GluR 2 are permeable to calcium (2). Post-transcriptional modifications (alternative splicing, nuclear RNA editing) and post-translational modifications (glycosylation, phosphorylation) result in a very large number of permutations, fine-tuning the kinetic properties of AMPARs. Research studies have implicated activity changes in AMPARs in a variety of diseases including Alzheimer's, amyotrophic lateral sclerosis (ALS), stroke, and epilepsy (1).						
	Background							
	Background References	1. Palmer, C.L. et al. (2 2. Cull-Candy, S. et al.						
	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	WB: Western Blotting						
	Cross-Reactivity Key	X: Xenopus Z: zebrafish	use R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster ebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse Rab: rabbit All: all species expected					
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