Revision 3		
NMDA Receptor 2B (GluN2B) Antibody		ell Signaling
Store	Orders:	877-616-CELL (2355) orders@cellsignal.com
	Support:	877-678-TECH (8324)
#4207	Web:	info@cellsignal.com cellsignal.com
7#	3 Trask Lane Danvers Mas	sachusetts 01923 USA
For Research Use Only. Not for Use in Diagnostic Procedures.		

Applications: W	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 190	Source/Isotype: Rabbit	UniProt ID: #Q13224	Entrez-Gene Io 2904		
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/Sensitivity		NMDA Receptor 2B (GluN2B) Antibody detects endogenous levels of total NMDAR2B protein.						
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Tyr1133 of human NMDA Receptor 2B (GluN2B). Antibodies are purified by peptide affinity chromatography.						
Background		subunit. Multiple rece selective splicing of th bind the co-agonist gl NMDA receptor or op of the cell (1). Each sul kinase/phosphatase (2) Ser890/Ser896, and Pl decreases its affinity f The phosphorylation or receptor (5). NMDAR r central roles in learnir EphrinB2 binding to tl phosphorylate NMDA	ptor isoforms with e NR1 transcripts a ycine and NR2 suble ening of the ion cha bunit has a cytopla 2). PKC can phosph KA can phosphoryla or calmodulin, thus of NR1 by PKA prob nediates long-term ng, neurodevelopm ne receptor EphB le R2B at Tyr1252, Tyr	forms a heterodimer of distinct brain distributio and differential expressio units bind the neurotran annel allows flow of Na ⁺ smic domain that can be orylate the NR1 subunit ate NR1 at Ser897 (3). Th preventing the inhibito ably counteracts the inh potentiation and slow p ent, and neuroplasticity adds to the activation of 1336 and Tyr1472. In tu IDA receptor to regulate	ns and functional p on of the NR2 subur ismitter glutamate. and Ca ²⁺ ions into i e directly modified h (NMDAR1) of the re e phosphorylation ry effect of calmodu ibitory eff	properties arise by hits. NR1 subunits Activation of the the cell, and K ⁺ out by the protein cceptor at of NR1 by PKC ulin on NMDAR (4). cineurin on the ion, which play kinases, which NMDAR2B		
Background R	eferences	1. Liu, X.B. et al. (2004 2. Westphal, R.S. et al. 3. Tingley, W.G. et al. (4. Hisatsune, C. et al. (5. Raman, I.M. et al. (1 6. Makhinson, M. et al 7. Takasu, M.A. et al. (2	(1999) Science 285 1997) J Biol Chem 2 (1997) J Biol Chem 2 996) Neuron 16, 41 . (1999) J Neurosci	, 93-6. .72, 5157-66. 272, 20805-10. 15-21. 19, 2500-10.				
Species Reacti	vity	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot E	Buffer		MPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X BS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.					
Applications K	ley	W: Western Blotting						
Cross-Reactivi	ty Key	H: Human M: Mouse I	R: Rat					
Trademarks and Patents		Cell Signaling Technol	ogy is a trademark	of Cell Signaling Techno	logy, Inc.			
		All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.						
Limited Uses		the following terms a	oply to Products pro	a writing signed by a leg ovided by CST, its affiliat to, or different from, th	es or its distributor	s. Any Customer's		

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 purpose, 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 or services used by Customer in connection with the Products.

Orders: 877-616-CELL (2355) • orders@cellsignal.com • Support: 877-678-TECH (8324) • info@cellsignal.com • Web: cellsignal.com For Research Use Only. Not for Use in Diagnostic Procedures.