Store at -20C

.208

## Phospho-NMDA Receptor 2B (GluN2B) (Tyr1472) 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, IP	<b>Reactivity:</b> R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 190	Source/Isotype: Rabbit	<b>UniProt ID:</b> #Q13224	Entrez-Gene Id: 2904
Product Usage Information		<b>Application</b> Western Blotting Immunoprecipitation			<b>Dilution</b> 1:1000 1:50	
Storage		Supplied in 10 mM sodi 20°C. Do not aliquot the		), 150 mM NaCl, 100 μg/	/ml BSA and 50% gl	ycerol. Store at –
Specificity/Sens	sitivity	Phospho-NMDA Receptor 2B (GluN2B) (Tyr1472) Antibody detects endogenous levels of NMDA Receptor 2B (GluN2B) only when phosphorylated at Tyr1472.				s of NMDA
Species predict based on 100% homology		Human, Mouse				
Source / Purific	ation	Polyclonal antibodies an corresponding to residu purified by protein A an	ues surrounding T	yr1472 of NMDA Recept		
Background		(7, 8). Phosphorylation ( Technology (CST) using Phosphorylation of NM	tor isoforms with NR1 transcripts a cine and NR2 subu- ning of the ion cha- unit has a cytoplas PKC can phosphoryla calmodulin, thus NR1 by PKA prob- ediates long-term n, neurodevelopm e receptor EphB le 2B at Tyr1252, Tyr the functional NM of NMDAR2B at Ty PhosphoScan <sup>®</sup> , C DAR2B at Tyr1472	distinct brain distribution nd differential expression units bind the neurotran unnel allows flow of Na <sup>+</sup> , smic domain that can be prylate the NR1 subunit the NR1 at Ser897 (3). The preventing the inhibitor ably counteracts the inh potentiation and slow p ent, and neuroplasticity ads to the activation of S 1336 and Tyr1472. In tur DA receptor to regulate r1472 was independent ST's MS/MS platform for	ns and functional p on of the NR2 subur smitter glutamate. and Ca <sup>2+</sup> ions into t directly modified b (NMDAR1) of the re- e phosphorylation or ry effect of calmodu ibitory effect of calmodu ibitory effect of calmodu (6). Src family tyrosine k rn, phosphorylated Ca <sup>2+</sup> influx in respo- ly identified at Cell phosphorylation si ts isolated from isch	roperties arise by hits. NR1 subunits Activation of the he cell, and K <sup>+</sup> out y the protein ceptor at of NR1 by PKC ulin on NMDAR (4). cineurin on the on, which play cinases, which NMDAR2B onse to glutamate Signaling te discovery.
Background Re	ferences	1. Liu, X.B. et al. (2004) <i>J</i> 2. Westphal, R.S. et al. ( 3. Tingley, W.G. et al. ( 4. Hisatsune, C. et al. (1 5. Raman, I.M. et al. (19 6. Makhinson, M. et al. ( 7. Nakazawa, T. et al. (2 8. Takasu, M.A. et al. (20	1999) Science 285 997) J Biol Chem 2 997) J Biol Chem 2 96) Neuron 16, 41 (1999) J Neurosci 1 001) J Biol Chem 2	. 93-6. 72, 5157-66. 72, 20805-10. 5-21. 9, 2500-10. 76, 693-9.		
Species Reactiv	ity	Species reactivity is det	ermined by testing	g in at least one approve	ed application (e.g.,	western blot).
Western Blot B	uffer	IMPORTANT: For wester			primary antibody ii	ר 5% w/v BSA, 1X

TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key	W: Western Blotting IP: Immunoprecipitation
Cross-Reactivity Key	R: Rat
Trademarks and Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.
	All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.
Limited Uses	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 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 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.