## NMDA Receptor 1 (GluN1) (D65B7) Rabbit mAh



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

Applications: W, IP	Reactivity: H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 120	Source/Isotype: Rabbit IgG	UniProt ID: #Q05586	Entrez-Gene Id: 2902
Product Usage Information		Application Western Blotting Immunoprecipitation			<b>Dilution</b> 1:1000 1:50	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		NMDA Receptor 1 (GluN1) (D65B7) Rabbit mAb detects endogenous levels of total NMDAR1 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro660 of the human NMDA Receptor 1.				
Background		subunit. Multiple rece selective splicing of th bind the co-agonist gl NMDA receptor or op of the cell (1). Each su kinase/phosphatase (2 Ser890/Ser896, and P decreases its affinity f The phosphorylation of receptor (5). NMDAR r	ptor isoforms with the NR1 transcripts a ycine and NR2 subjection of the ion challong of the ion challong of the ion challong of the ion challong of the ion can phosphory a calmodulin, thus of NR1 by PKA probections.	forms a heterodimer of distinct brain distribution differential expression its bind the neurotran annel allows flow of National distribution that can be orylate the NR1 subunitate NR1 at Ser897 (3). The preventing the inhibito ably counteracts the inhipotentiation and slow pent, and neuroplasticity	ns and functional p on of the NR2 subur smitter glutamate. and Ca <sup>2+</sup> ions into the directly modified b (NMDAR1) of the re- e phosphorylation ry effect of calmodi dibitory effect of cal- postsynaptic excitat	oroperties arise by inits. NR1 subunits Activation of the che cell, and K <sup>+</sup> out by the protein eceptor at of NR1 by PKC ulin on NMDAR (4). cineurin on the
Background References		<ol> <li>Liu, X.B. et al. (2004) J Neurosci 24, 8885-95.</li> <li>Westphal, R.S. et al. (1999) Science 285, 93-6.</li> <li>Tingley, W.G. et al. (1997) J Biol Chem 272, 5157-66.</li> <li>Hisatsune, C. et al. (1997) J Biol Chem 272, 20805-10.</li> <li>Raman, I.M. et al. (1996) Neuron 16, 415-21.</li> <li>Makhinson, M. et al. (1999) J Neurosci 19, 2500-10.</li> <li>Devi, L. and Ohno, M. (2015) Transl Psychiatry 5, e562.</li> </ol>				
Species Reactiv	vity	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X				

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

Applications Key W: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key H: Human M: Mouse R: Rat

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