

## ARG52366 anti-NMDA NR2B Subunit phospho (Ser1166) antibody

Package: 50 µl  
Store at: -20°C

### Summary

Product Description	Rabbit Polyclonal antibody recognizes NMDA NR2B Subunit phospho (Ser1166)
Tested Reactivity	Ms, Rat
Predict Reactivity	Hu, Dog, NHuPrm, Xenopus laevis
Tested Application	WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	NMDA NR2B Subunit
Species	Rat
Immunogen	Synthetic phospho-peptide corresponding to amino acid residues surrounding Ser1166 conjugated to KLH
Conjugation	Un-conjugated
Alternate Names	MRD6; EIEE27; NR2B; hNR3; GluN2B; NR3; N-methyl D-aspartate receptor subtype 2B; Glutamate receptor ionotropic, NMDA 2B; Glutamate [NMDA] receptor subunit epsilon-2; N-methyl-D-aspartate receptor subunit 3; NMDAR2B

### Application Instructions

Application table	Application	Dilution
	WB	1:250

**Application Note** Specific for the ~180k NMDAR NR2B subunit phosphorylated at Ser1166. Immunolabeling of the NMDA NR2B subunit band is blocked by the phosphopeptide used as the antigen but not by the corresponding dephosphopeptide.  
\* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

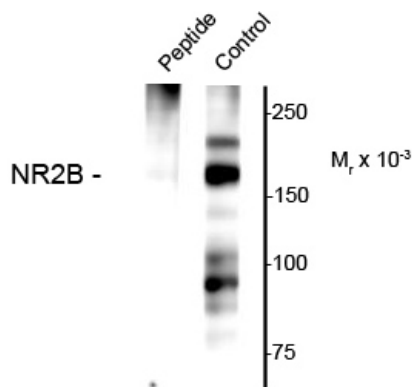
### Properties

Form	Liquid
Purification	Affinity Purified
Buffer	10 mM HEPES (pH 7.5), 150 mM NaCl, 0.1 mg/ml BSA and 50% Glycerol
Stabilizer	0.1 mg/ml BSA, 50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

Database links	<a href="#">GeneID: 14812 Mouse</a> <a href="#">GeneID: 24410 Rat</a> <a href="#">Swiss-port # Q00960 Rat</a> <a href="#">Swiss-port # Q01097 Mouse</a>
Gene Symbol	GRIN2B
Gene Full Name	glutamate receptor, ionotropic, N-methyl D-aspartate 2B
Background	The NMDA receptor (NMDAR) plays an essential role in memory, neuronal development and it has also been implicated in several disorders of the central nervous system including Alzheimer's, epilepsy and ischemic neuronal cell death (Grosshans et al., 2002; Wenthold et al., 2003; Carroll and Zukin, 2002). Overexpression of the NR2B-subunit of the NMDA Receptor has been associated with increases in learning and memory while aged, memory impaired animals have deficiencies in NR2B expression (Clayton et al., 2002a; Clayton et al., 2002b). Phosphorylation of Ser1166 is thought to play an essential role in memory and neuronal development.
Research Area	Neuroscience antibody; Postsynaptic Receptor antibody
Calculated Mw	166 kDa
PTM	Phosphorylation at Ser-1303 by DAPK1 enhances synaptic NMDA receptor channel activity.

## Images



ARG52366 anti-NMDA NR2B Subunit phospho (Ser1166) antibody WB image

Western blot: Rat hippocampal lysate showing specific immunolabeling of the ~180k NR2B subunit of the NMDAR phosphorylated at Ser 1166 (Control) stained with ARG52366 anti-NMDA NR2B Subunit phospho (Ser1166) antibody. Immunolabeling is blocked by preadsorption with the phospho-peptide used as antigen (Peptide).