

## Anti-Phospho-NMDA Receptor NR2B Subunit (Tyr1252) Grin2b Antibody

Catalog Number: P01883-1

### About GRIN2B

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). The rat NMDAR1 (NR1) was the first subunit of the NMDAR to be cloned. The NR1 protein can form NMDA activated channels when expressed in *Xenopus* oocytes but the currents in such channels are much smaller than those seen in situ. Channels with more physiological characteristics are produced when the NR1 subunit is combined with one or more of the NMDAR2 (NR2 A-D) subunits (Ishii et al., 1993). Phosphorylation of Tyr-1252 is thought to potentiate NMDA receptor-dependent influx of calcium (Takasu et al., 2002).

### Overview

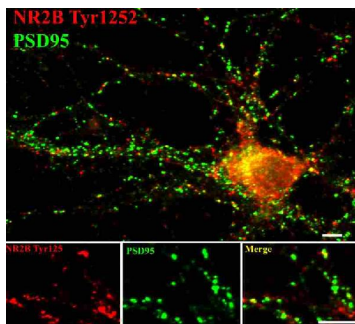
Product Name	Anti-Phospho-NMDA Receptor NR2B Subunit (Tyr1252) Grin2b Antibody
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-Phospho-NMDA Receptor NR2B Subunit (Tyr1252) Grin2b Antibody (Catalog # P01883-1). Tested in WB, IHC applications. This antibody reacts with Mouse, Rat.
Application	IHC, WB
Clonality	Polyclonal 608
Formulation	10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg per ml BSA and 50% glycerol.
Storage Instructions	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C. After date of receipt, stable for at least 1 year at -20°C.
Host	Rabbit
Uniprot ID	Q00960

### Technical Details

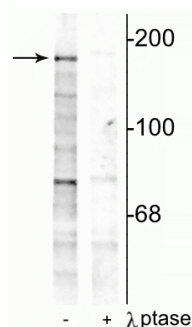
Immunogen	Synthetic phospho-peptide corresponding to amino acid residues surrounding Tyr1252 of the NR2B subunit of the rat NMDA receptor, conjugated to keyhole limpet hemocyanin (KLH). Immunogen species is Rat.
Predicted Reactive Species	Bovine, Canine, Chicken, Human, Primate, Zebrafish
Cross Reactivity	No cross reactivity with other proteins.
Isotype	IgG
Form	Liquid

Concentration	0.5-1mg/ml, actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure.
Purification	Prepared from pooled rabbit serum by affinity purification via sequential chromatography on phospho and non-phosphopeptide affinity columns.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>WB: 1:1000</p> <p>ICC: 1:100-1:400</p>

## Anti-Phospho-NMDA Receptor NR2B Subunit (Tyr1252) Grin2b Antibody (P01883-1) Images



Immunostaining of 14 DIV rat cortical neurons showing NR2B phosphorylated at Tyr<sup>1252</sup> in red and PSD95 in green.



Western blot of rat hippocampal lysate showing specific immunolabeling of the ~180 kDa NR2B subunit phosphorylated at Tyr<sup>1252</sup> in the first lane (-). Phosphospecificity is shown in the second lane (+) where immunolabeling is completely eliminated by blot treatment with lambda phosphatase (gamma-Ptase, 1200 units for 30 min).

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