

## Anti-Phospho-NMDA Receptor NR2B Subunit (Tyr1472) Grin2b Antibody

Catalog Number: P01883-3

### About GRIN2B

The ion channels activated by glutamate that are sensitive to N-methyl-D-aspartate (NMDA) are designated NMDA receptors (NMDAR). The 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 NMDA receptor is also one of the principal molecular targets for alcohol in the CNS (Lovinger et al., 1989; Alvestad et al., 2003; Snell et al., 1996). Channels with 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). 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). Recent work suggests that phosphorylation of Tyr-1472 on NR2B may regulate the functional expression the receptor in LTP and other forms of plasticity (Nakazawa et al., 2001; Roche et al., 2001).

### Overview

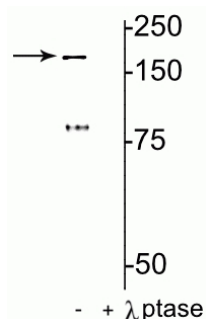
|                      |  |
|----------------------|--|
| Product Name         | Anti-Phospho-NMDA Receptor NR2B Subunit (Tyr1472) Grin2b Antibody  |
| Reactive Species     | Mouse, Rat   |
| Description          | Boster Bio Anti-Phospho-NMDA Receptor NR2B Subunit (Tyr1472) Grin2b Antibody (Catalog # P01883-3). Tested in WB applications. This antibody reacts with Mouse, Rat.  |
| Application          | 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 Tyr1472 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</p> |

## Anti-Phospho-NMDA Receptor NR2B Subunit (Tyr1472) Grin2b Antibody (P01883-3) Images



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