

Product datasheet for **AP26447PU-N**

Grin2b pSer1166 Rabbit Polyclonal Antibody

Product data:

| | |
|-----------------------|---|
| Product Type: | Primary Antibodies |
| Applications: | WB |
| Recommended Dilution: | Western blot: 1/250. |
| Reactivity: | Canine, Human, Mouse, Primate, Rat, Xenopus |
| Host: | Rabbit |
| Isotype: | Ig |
| Clonality: | Polyclonal |
| Immunogen: | Phosphopeptide corresponding to amino acid residues surrounding the phospho- Ser 1166 of the NR2B subunit of the rat NMDA receptor |
| Specificity: | Specific for the ~180k NMDAR NR2B subunit phosphorylated at Ser 1166 . Immunolabeling of the NMDA NR2B subunit band is blocked by the phosphopeptide used as the antigen but not by the corresponding dephosphopeptide. |
| Formulation: | 100 µl in 10 mM HEPES (pH 7.5), 150 mM Na Cl, 100 µg per ml BSA and 50% glycerol State: Aff - Purified State: Liquid Ig fraction |
| Purification: | Affinity purification via sequential chromatography on phospho- and dephosphopeptide affinity columns |
| Conjugation: | Unconjugated |
| Storage: | Upon receipt, store undiluted (in aliquots) at -20°C. Avoid repeated freezing and thawing. |
| Stability: | Shelf life: one year from despatch. |
| Gene Name: | glutamate ionotropic receptor NMDA type subunit 2B |
| Database Link: | Entrez Gene 24410 Rat Q00960 |



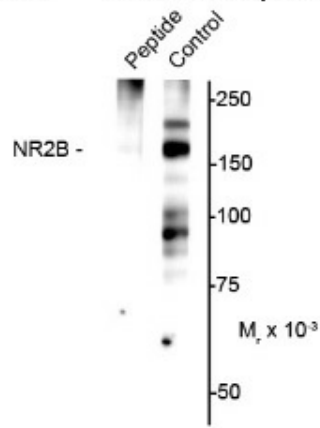
[View online »](#)

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 Ser 1166 is thought to play an essential role in memory and neuronal development.

Synonyms:

GRIN2B, NMDA Receptor 2B

Product images:**Anti-Phospho-Ser¹¹⁶⁶ NMDA Receptor NR2B Subunit**

Western blot of rat hippocampal lysate showing specific immunolabeling of the ~180k NR2B subunit of the NMDAR phosphorylated at Ser 1166 (Control). Immunolabeling is blocked by preadsorption with the phospho-peptide used as antigen (Peptide), but not by the corresponding dephospho-peptide (not shown).