

## Product datasheet for **AP20498PU-N**

### **NMDAR2B (GRIN2B) Rabbit Polyclonal Antibody**

#### **Product data:**

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	<b>Western blot:</b> 1/500 - 1/1000.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to the C-terminus of Human NMDA $\epsilon$ 2
Specificity:	This antibody detects endogenous levels of NMDAR2B protein. (region surrounding Ser1468)
Formulation:	Phosphate buffered saline (PBS), pH 7.2. State: Aff - Purified State: Liquid purified Ig fraction Preservative: 0.05% sodium azide
Concentration:	1.0 mg/ml
Purification:	Affinity chromatography (> 95% (by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 165 kDa
Gene Name:	glutamate ionotropic receptor NMDA type subunit 2B
Database Link:	<a href="#">Entrez Gene 14812 Mouse</a> <a href="#">Entrez Gene 24410 Rat</a> <a href="#">Entrez Gene 2904 Human Q13224</a>



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**Background:**

NMDA receptors are a class of ionotropic glutamate receptors. NMDA receptor channel has been shown to be involved in long term potentiation, an activity dependent increase in the efficiency of synaptic transmission thought to underlie certain kinds of memory and learning. NMDA receptor channels are heteromers composed of the key receptor subunit NMDAR1 (GRIN1) and 1 or more of the 4 NMDAR2 subunits: NMDAR2A (GRIN2A), NMDAR2B (GRIN2B), NMDAR2C (GRIN2C), and NMDAR2D (GRIN2D). GRIN2B may be a candidate gene for the neurodegenerative disorder dentato-rubro-pallidolusian atrophy (DRPLA). Properties of NMDAR include modulation by glycine, inhibition by Zn<sup>2+</sup>, voltage dependent Mg<sup>2+</sup> blockade and high Ca<sup>2+</sup> permeability. The involvement of NMDAR in the CNS has become a focus area for neurodegenerative diseases such as Alzheimer's disease and also epilepsy and ischemic neuronal cell death.

**Synonyms:**

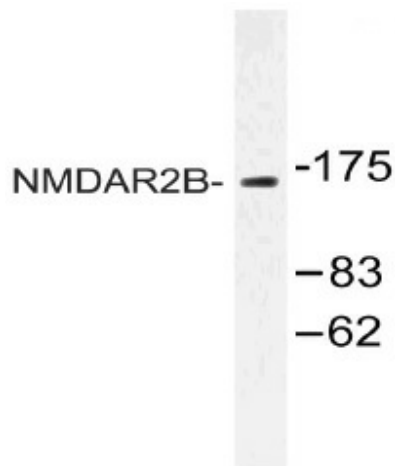
GRIN2B, NMDA Receptor 2B

**Protein Families:**

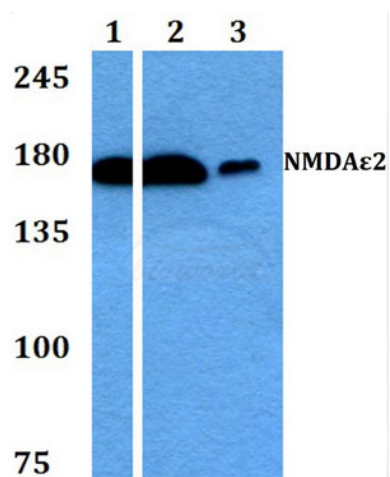
Druggable Genome, Ion Channels: Glutamate Receptors, Transmembrane

**Protein Pathways:**

Alzheimer's disease, Amyotrophic lateral sclerosis (ALS), Huntington's disease, Long-term potentiation, Neuroactive ligand-receptor interaction, Systemic lupus erythematosus

**Product images:**

Western blot (WB) analysis of NMDAR $\mu$ 2 (S1468) polyclonal antibody at 1/500 dilution: Lane 1: HEK293T whole cell lysate. Lane 2: Raw264.7 whole cell lysate. Lane 3: PC12 whole cell lysate.



Western blot (WB) analysis of NMDAR2B antibody in extracts from Jurkat cells.