SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

# Rabbit Anti-NR3B antibody

SL12102R

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|---|---|
| **Product Name** | NR3B |
| **Chinese Name** | 谷氨酸受体 3B 抗体 |
| **Alias** | Chi-1; Glutamate [NMDA] receptor subunit 3B; GRIN3B; N-methyl-D-aspartate receptor; N-methyl-D-aspartate receptor subtype 3B; NMD3B_HUMAN; NMDAR-L; NMDAR-L1; NMDAR3B; NR3B. |
| **Research Area** | Cell biology Neurobiology Channel protein The cell membrane 受体 |
| **Immunogen Species** | Rabbit |
| **Clonality** | Polyclonal |
| **React Species** | Rat(predicted:Human,Mouse) |
| **Applications** | IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 （Paraffin sections need antigen repair）<br>not yet tested in other applications.<br>optimal dilutions/concentrations should be determined by the end user. |
| **Theoretical molecular weight** | 110kDa |
| **Cellular localization** | cytoplasmic The cell membrane |
| **Form** | Liquid |
| **Concentration** | 1mg/ml |
| **immunogen** | KLH conjugated synthetic peptide derived from human NMDAR3B/NR3B: 351-395/1043 <Extracellular> |
| **Lsotype** | IgG |
| **Purification** | affinity purified by Protein A |
| **Buffer Solution** | 1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol. |
| **Storage** | Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. |
| **Attention** | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. |

**PubMed**

PubMed

Glutamate receptors mediate most excitatory neurotransmission in the brain and play an important role in neural plasticity, neural development and neuro-degeneration. Ionotropic glutamate receptors are categorized into NMDA receptors and kainate/AMPA receptors, both of which contain glutamate-gated, cation-specific ion channels. Kainate/AMPA receptors co-localize with NMDA receptors in many synapses and consist of seven structurally related subunits designated GluR-1 to 7. The kainate/AMPA receptors are primarily responsible for fast excitatory neurotransmission by glutamate, whereas the NMDA receptors exhibit slow kinesis of Ca2+ ions and a high permeability for Ca2+ ions. One such NMDA receptor, NR3B, is expressed in motor neurons and forms cation channels impermeable to calcium, which can resist many open-channel blockers. NR3B functions in the brain as an excitatory glycine receptor, modifying the normal role of glycine as an inhibitory neurotransmitter.

**Function:**
NMDA receptor subtype of glutamate-gated ion channels with reduced single-channel conductance, low calcium permeability and low voltage-dependent sensitivity to magnesium. Mediated by glycine.

**Product Detail**

**Subunit:**
Forms heteromeric channel of a zeta subunit (GRIN1), a epsilon subunit (GRIN2A, GRIN2B, GRIN2C or GRIN2D) and a third subunit (GRIN3A or GRIN3B). Does not form functional homomeric channels. Found in a complex containing GRIN1 and GRIN2A.

**Subcellular Location:**
Cell membrane; Multi-pass membrane protein. Cell junction, synapse, postsynaptic cell membrane. Note=Requires the presence of GRIN1 to be targeted at the plasma membrane.

**Similarity:**
Belongs to the glutamate-gated ion channel (TC 1.A.10.1) family. NR3B/GRIN3B subfamily.

**SWISS:**
O60391

**Gene ID:**
116444

**Database links:**

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Entrez Gene: 116444 Human

Entrez Gene: 170483 Mouse

Entrez Gene: 170796 Rat

Omim: 606651 Human

SwissProt: O60391 Human

SwissProt: Q91ZU9 Mouse

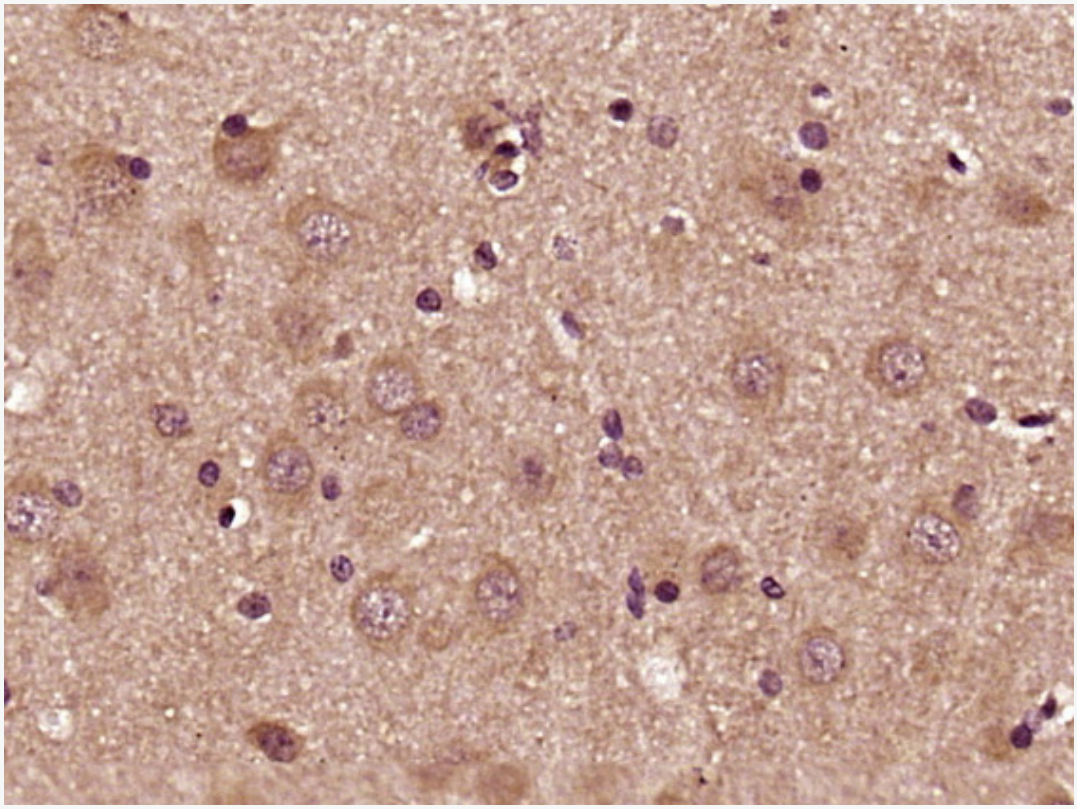
SwissProt: Q8VHN2 Rat

Unigene: 660378 Human

Unigene: 391566 Mouse

Unigene: 162906 Rat

**Product Picture**



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Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (NR3B) Polyclonal Antibody, Unconjugated (SL12102R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.