

**GRIN3B Antibody (C-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP12291b****Specification**

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**GRIN3B Antibody (C-term) Blocking peptide - Product Information**Primary Accession [O60391](#)**GRIN3B Antibody (C-term) Blocking peptide - Additional Information****Gene ID** 116444**Other Names**

Glutamate receptor ionotropic, NMDA 3B, GluN3B, N-methyl-D-aspartate receptor subtype 3B, NMDAR3B, NR3B, GRIN3B

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**GRIN3B Antibody (C-term) Blocking peptide - Protein Information****Name** GRIN3B ([HGNC:16768](#))**Function**

Component of a non-conventional N-methyl-D-aspartate (NMDA) receptors (NMDARs) that function as heterotetrameric, ligand-gated cation channels with low calcium permeability and low voltage-dependent block by Mg(2+) (By similarity). Forms glutamatergic receptor complexes with GluN1 and GluN2 subunits which are activated by glycine binding to the GluN1 and GluN3 subunits and L-glutamate binding to GluN2 subunits (By similarity). Forms excitatory glycinergic receptor complexes with GluN1 alone which are activated by glycine binding to the GluN1 and GluN3 subunits. GluN3B subunit also binds D-serine and, in the absence of glycine, activates glycinergic receptor complexes, but with lower efficacy than glycine (By similarity). Each GluN3 subunit confers differential attributes to channel properties, including activation, deactivation and desensitization kinetics, pH sensitivity, Ca2(+) permeability, and binding to allosteric modulators (By similarity).

**Cellular Location**

Cell membrane {ECO:0000250|UniProtKB:Q91ZU9}; Multi-pass membrane protein {ECO:0000250|UniProtKB:Q13224} Postsynaptic cell membrane {ECO:0000250|UniProtKB:Q91ZU9} Note=Requires the presence of GRIN1 to be targeted at the plasma membrane. {ECO:0000250|UniProtKB:Q91ZU9}

**GRIN3B Antibody (C-term) Blocking peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

**GRIN3B Antibody (C-term) Blocking peptide - Images****GRIN3B Antibody (C-term) Blocking peptide - Background**

GRIN3B is a NMDA receptor subtype of glutamate-gated ion channels with reduced single-channel conductance, low calcium permeability and low voltage-dependent sensitivity to magnesium. It is mediated by glycine.

**GRIN3B Antibody (C-term) Blocking peptide - References**

Sedaghati, M., et al. Eur. J. Pharmacol. 633 (1-3), 50-54 (2010) :Saus, E., et al. J Psychiatr Res (2010) In press :Need, A.C., et al. Eur. J. Hum. Genet. 17(7):946-957(2009)Liu, H.P., et al. Dement Geriatr Cogn Disord 28(6):521-527(2009)Niemann, S., et al. Neurology 70(9):666-676(2008)