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# GRIN2D Antibody (C-Term)

**Peptide-affinity purified goat antibody**
**Catalog # AF2705a**

## Specification

### GRIN2D Antibody (C-Term) - Product Information

| | |
|---|---|
| Application | **E** |
| Primary Accession | O15399 |
| Other Accession | NP_000827.2, 2906, 14814 (mouse), 24412 (rat) |
| Predicted | **Human, Mouse, Rat** |
| Host | **Goat** |
| Clonality | **Polyclonal** |
| Concentration | **0.5 mg/ml** |
| Isotype | **IgG** |
| Calculated MW | **143752** |

### GRIN2D Antibody (C-Term) - Additional Information

**Gene ID** 2906

**Other Names**
Glutamate receptor ionotropic, NMDA 2D, GluN2D, EB11, Glutamate [NMDA] receptor subunit epsilon-4, N-methyl D-aspartate receptor subtype 2D, NMDAR2D, NR2D, GRIN2D, GluN2D, NMDAR2D

**Format**
0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

**Storage**
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**
GRIN2D Antibody (C-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

### GRIN2D Antibody (C-Term) - Protein Information

**Name** GRIN2D

**Synonyms** GluN2D, NMDAR2D

**Function**
Component of NMDA receptor complexes that function as heterotetrameric, ligand-gated ion channels with high calcium permeability and voltage-dependent sensitivity to magnesium. Channel activation requires binding of the neurotransmitter glutamate to the epsilon subunit,

glycine binding to the zeta subunit, plus membrane depolarization to eliminate channel inhibition by Mg(2+) (PubMed:<a href="http://www.uniprot.org/citations/9489750" target="_blank">9489750</a>, PubMed:<a href="http://www.uniprot.org/citations/27616483" target="_blank">27616483</a>, PubMed:<a href="http://www.uniprot.org/citations/26875626" target="_blank">26875626</a>, PubMed:<a href="http://www.uniprot.org/citations/28126851" target="_blank">28126851</a>). Sensitivity to glutamate and channel kinetics depend on the subunit composition (PubMed:<a href="http://www.uniprot.org/citations/9489750" target="_blank">9489750</a>).

**Cellular Location**
Cell membrane; Multi-pass membrane protein. Postsynaptic cell membrane; Multi-pass membrane protein

## GRIN2D Antibody (C-Term) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## GRIN2D Antibody (C-Term) - Images

## GRIN2D Antibody (C-Term) - References

NMDA receptor NR2 subunit dependence of the slow component of magnesium unblock. Clarke RJ, Johnson JW. J Neurosci. 2006 May 24;26(21):5825-34. PMID: 16723541