

GRIN1 / NMDAR1 Antibody (aa864-913)
Rabbit Polyclonal Antibody
Catalog # ALS14740**Specification****GRIN1 / NMDAR1 Antibody (aa864-913) - Product Information**

Application	WB, IHC
Primary Accession	Q05586
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	105kDa KDa

GRIN1 / NMDAR1 Antibody (aa864-913) - Additional Information**Gene ID** 2902**Other Names**

Glutamate receptor ionotropic, NMDA 1, GluN1, Glutamate [NMDA] receptor subunit zeta-1, N-methyl-D-aspartate receptor subunit NR1, NMD-R1, GRIN1, NMDAR1

Target/Specificity

NMDAR1 antibody detects endogenous levels of total NMDAR1 protein.

Reconstitution & Storage

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles.

Precautions

GRIN1 / NMDAR1 Antibody (aa864-913) is for research use only and not for use in diagnostic or therapeutic procedures.

GRIN1 / NMDAR1 Antibody (aa864-913) - Protein Information**Name** GRIN1**Synonyms** NMDAR1**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: [7685113](http://www.uniprot.org/citations/7685113), PubMed: [28126851](http://www.uniprot.org/citations/28126851), PubMed: [26919761](http://www.uniprot.org/citations/26919761), PubMed: [26875626](http://www.uniprot.org/citations/26875626), PubMed: [28105280](http://www.uniprot.org/citations/28105280)). Sensitivity to glutamate and channel kinetics depend on the

subunit composition (PubMed:26919761).

Cellular Location

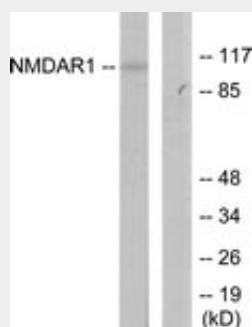
Cell membrane; Multi-pass membrane protein. Postsynaptic cell membrane. Postsynaptic density.
Note=Enriched in postsynaptic plasma membrane and postsynaptic densities.

GRIN1 / NMDAR1 Antibody (aa864-913) - Protocols

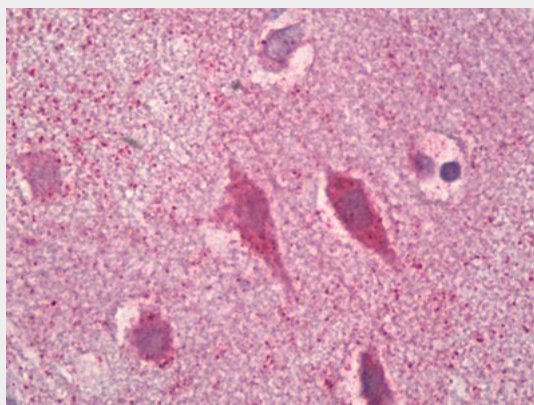
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

GRIN1 / NMDAR1 Antibody (aa864-913) - Images



Western blot of extracts from Jurkat cells, using NMDAR1 antibody.



Anti-GRIN1 / NMDAR1 antibody IHC of human brain, cortex neurons.

GRIN1 / NMDAR1 Antibody (aa864-913) - Background

NMDA receptor subtype of glutamate-gated ion channels with high calcium permeability and voltage-dependent sensitivity to magnesium. Mediated by glycine. This protein plays a key role in synaptic plasticity, synaptogenesis, excitotoxicity, memory acquisition and learning. It mediates

neuronal functions in glutamate neurotransmission. Is involved in the cell surface targeting of NMDA receptors (By similarity).

GRIN1 / NMDAR1 Antibody (aa864-913) - References

Foldes R.L.,et al.Gene 131:293-298(1993).
Karp S.J.,et al.J. Biol. Chem. 268:3728-3733(1993).
Planells-Cases R.,et al.Proc. Natl. Acad. Sci. U.S.A. 90:5057-5061(1993).
Zimmer M.,et al.Gene 159:219-223(1995).
Nash N.R.,et al.J. Neurochem. 69:485-493(1997).