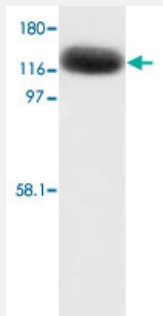


GRIN1 polyclonal antibody

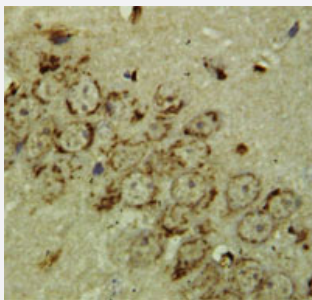
Catalog # PAB12310 Size 100 ug

Applications



Western Blot (Tissue lysate)

Western Blot analysis of GRIN1 expression from rat brain tissue lysate with GRIN1 polyclonal antibody (Cat # PAB12310).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining in rat brain tissue using GRIN1 polyclonal antibody (Cat # PAB12310).

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of GRIN1.
Immunogen	A synthetic peptide corresponding to amino acids at N-terminus of human GRIN1.
Host	Rabbit
Theoretical MW (kDa)	105
Reactivity	Human, Rat
Specificity	Identical to the related rat and mouse sequence.
Form	Lyophilized

Purification	Affinity purification
Isotype	IgG
Recommend Usage	Western Blot (1 ug/mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (2 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ (5 mg BSA, 0.05 mg sodium azide, 0.05 mg Thimerosal)
Storage Instruction	Store at -20°C on dry atmosphere. After reconstitution with 200 uL of deionized water and concentration will be 500 ug/mL, store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide and thimerosal: POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Tissue lysate)

Western Blot analysis of GRIN1 expression from rat brain tissue lysate with GRIN1 polyclonal antibody (Cat # PAB12310).

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining in rat brain tissue using GRIN1 polyclonal antibody (Cat # PAB12310).

Gene Info — GRIN1

Entrez GeneID	2902
Gene Name	GRIN1
Gene Alias	NMDA1, NMDAR1, NR1
Gene Description	glutamate receptor, ionotropic, N-methyl D-aspartate 1
Omim ID	138249
Gene Ontology	Hyperlink

Gene Summary

The protein encoded by this gene is a critical subunit of N-methyl-D-aspartate receptors, members of the glutamate receptor channel superfamily which are heteromeric protein complexes with multiple subunits arranged to form a ligand-gated ion channel. These subunits play a key role in the plasticity of synapses, which is believed to underlie memory and learning. Cell-specific factors are thought to control expression of different isoforms, possibly contributing to the functional diversity of the subunits. Alternatively spliced transcript variants have been described. [provided by RefSeq]

Other Designations

N-methyl-D-aspartate receptor channel, subunit zeta-1|NMDA receptor 1|OTTHUMP00000022678|glutamate [NMDA] receptor subunit zeta 1

Publication Reference

- [Cloning and structure of the gene encoding the human N-methyl-D-aspartate receptor \(NMDAR1\).](#)

Zimmer M, Fink TM, Franke Y, Lichter P, Spiess J.

Gene 1995 Jul; 159(2):219.

- [Chromosomal localization of the epsilon 1, epsilon 3 and zeta 1 subunit genes of the human NMDA receptor channel.](#)

Takano H, Onodera O, Tanaka H, Mori H, Sakimura K, Hori T, Kobayashi H, Mishina M, Tsuji S.

Biochemical and Biophysical Research Communications 1993 Dec; 197(2):922.

- [Mapping of the human NMDA receptor subunit \(NMDAR1\) and the proposed NMDA receptor glutamate-binding subunit \(NMDARA1\) to chromosomes 9q34.3 and chromosome 8, respectively.](#)

Collins C, Duff C, Duncan AM, Planells-Cases R, Sun W, Norremolle A, Michaelis E, Montal M, Worton R, Hayden MR.

Genomics 1993 Jul; 17(1):237.

Pathway

- [Amyotrophic lateral sclerosis \(ALS\)](#)
- [Calcium signaling pathway](#)
- [Long-term potentiation](#)
- [Neuroactive ligand-receptor interaction](#)

Disease

- [Alcohol Withdrawal Seizures](#)

- [Alcoholism](#)
- [Alcohol-Related Disorders](#)
- [Anorexia Nervosa](#)
- [Bipolar Disorder](#)
- [Body Weight](#)
- [Bulimia](#)
- [Cognition](#)
- [Disease Models](#)
- [Disease Susceptibility](#)
- [Genetic Predisposition to Disease](#)
- [Obesity](#)
- [Parkinson Disease](#)
- [Schizophrenia](#)
- [Schizophrenic Psychology](#)
- [Spasms](#)
- [Substance Withdrawal Syndrome](#)
- [Weight Gain](#)
- [Weight Loss](#)