

GRIN2B polyclonal antibody

Catalog # PAB7997

Size 100 ug

Applications



Western Blot (Tissue lysate)

Western blot analysis of rat brain tissue lysate. Using GRIN2B polyclonal antibody (Cat # PAB7997) .



Immunofluorescence

Immunofluorescence analysis of paraffin-embedded rat brain sections, stain GRIN2B in cytoplasm DAB chromogenic reaction.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of GRIN2B.
Immunogen	A synthetic peptide corresponding to amino acids at N-terminus of human GRIN2B.
Host	Rabbit
Theoretical MW (kDa)	166
Reactivity	Human, Mouse, Rabbit, Rat
Form	Lyophilized
Purification	Affinity purification

Isotype	IgG
Recommend Usage	Western Blot (1-2 ug/mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (0.5-1 ug/mL) Immunohistochemistry (Frozen sections) (0.5-1 ug/mL) Immunocytochemistry (0.5-1 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ .
Storage Instruction	Store at -20°C. After reconstitution with deionized water, store at -20°C. 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.

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Gene Info — GRIN2B

Entrez GeneID	2904
Gene Name	GRIN2B
Gene Alias	MGC142178, MGC142180, NMDAR2B, NR2B, hNR3
Gene Description	glutamate receptor, ionotropic, N-methyl D-aspartate 2B
Omim ID	138252
Gene Ontology	Hyperlink
Gene Summary	N-methyl-D-aspartate (NMDA) receptors are a class of ionotropic glutamate receptors. NMDA receptor channel has been shown to be involved in long-term potentiation, an activity-dependent increase in the efficiency of synaptic transmission thought to underlie certain kinds of memory and learning. NMDA receptor channels are heteromers composed of three different subunits: NR1 (GRIN1), NR2 (GRIN2A, GRIN2B, GRIN2C, or GRIN2D) and NR3 (GRIN3A or GRIN3B). The NR2 subunit acts as the agonist binding site for glutamate. This receptor is the predominant excitatory neurotransmitter receptor in the mammalian brain. [provided by RefSeq]

Other Designations

N-methyl-D-aspartate receptor subunit 2B|glutamate receptor subunit epsilon-2

Publication Reference

- [Genetic enhancement of learning and memory in mice.](#)

Tang YP, Shimizu E, Dube GR, Rampon C, Kerchner GA, Zhuo M, Liu G, Tsien JZ.

Nature 1999 Sep; 401(6748):63.

Application: WB-Ti, Mouse, Cortex, Hippocampus

- [Mapping of the human NMDAR2B receptor subunit gene \(GRIN2B\) to chromosome 12p12.](#)

Mandich P, Schito AM, Bellone E, Antonacci R, Finelli P, Rocchi M, Ajmar F.

Genomics 1994 Jul; 22(1):216.

Application: IF, IHC, WB-Ce, WB-Tr, Human, Mouse, Brains, Human Peripheral Blood, NIH/3T3 cells

Pathway

- [Amyotrophic lateral sclerosis \(ALS\)](#)
- [Long-term potentiation](#)
- [Neuroactive ligand-receptor interaction](#)
- [Systemic lupus erythematosus](#)

Disease

- [Alcohol Withdrawal Delirium](#)
- [Alcoholism](#)
- [Alzheimer disease](#)
- [Anorexia Nervosa](#)
- [Attention](#)
- [Attention Deficit Disorder with Hyperactivity](#)
- [Bipolar Disorder](#)
- [Bulimia](#)

- [Cognition](#)
- [Cognition Disorders](#)
- [Cues](#)
- [Disease Models](#)
- [Dyslexia](#)
- [Epilepsy](#)
- [Executive Function](#)
- [Genetic Predisposition to Disease](#)
- [Huntington disease](#)
- [Impulse Control Disorders](#)
- [Inhibition \(Psychology\)](#)
- [Memory](#)
- [Mental Disorders](#)
- [Nerve Degeneration](#)
- [Neuropsychological Tests](#)
- [Obsessive-Compulsive Disorder](#)
- [Parkinson disease](#)
- [Pheochromocytoma](#)
- [Postmortem Changes](#)
- [Psychiatric Status Rating Scales](#)
- [Schizophrenia](#)
- [Schizophrenic Psychology](#)
- [Seizures](#)
- [Substance Withdrawal Syndrome](#)
- [Tobacco Use Disorder](#)
- [Verbal Learning](#)

- [Weight Gain](#)