RecomAb™ Sm Size

GRIA2 recombinant monoclonal antibody, clone 4C7

Catalog # RAB08191 Size 50 uL

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human GRIA2.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide corresponding to human GRIA2.
Reactivity	Human
Form	Liquid
Preparation Method	Mammalian cell (HEK293) expression system
Purification	Affinity chromatography
Isotype	IgG
Recommend Usage	ELISA The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH7.4 (150mM NaCl, 50% glycerol and 0.02% sodium azide)
Storage Instruction	Store at -20 °C or -80 °C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Enzyme-linked Immunoabsorbent Assay

Gene Info — GRIA2

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Entrez GeneID	2891
Protein Accession#	P42262
Gene Name	GRIA2
Gene Alias	GLUR2, GLURB, GluR-K2, HBGR2
Gene Description	glutamate receptor, ionotropic, AMPA 2
Omim ID	138247
Gene Ontology	Hyperlink
Gene Summary	Glutamate receptors are the predominant excitatory neurotransmitter receptors in the mammalian brain and are activated in a variety of normal neurophysiologic processes. This gene product belo ngs to a family of glutamate receptors that are sensitive to alpha-amino-3-hydroxy-5-methyl-4-isox azole propionate (AMPA), and function as ligand-activated cation channels. These channels are a ssembled from 4 related subunits, GRIA1-4. The subunit encoded by this gene (GRIA2) is subject to RNA editing (CAG->CGG; Q->R) within the second transmembrane domain, which is thought t o render the channel impermeable to Ca(2+). Human and animal studies suggest that pre-mRNA editing is essential for brain function, and defective GRIA2 RNA editing at the Q/R site may be rel evant to amyotrophic lateral sclerosis (ALS) etiology. Alternative splicing, resulting in transcript va riants encoding different isoforms, (including the flip and flop isoforms that vary in their signal trans duction properties), has been noted for this gene. [provided by RefSeq
Other Designations	OTTHUMP00000165324|gluR-B|glutamate receptor 2

Pathway

- Amyotrophic lateral sclerosis (ALS)
- Long-term depression
- Long-term potentiation
- Neuroactive ligand-receptor interaction

Disease

- Anorexia Nervosa
- Bipolar Disorder

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- Bulimia
- Cognition
- Genetic Predisposition to Disease
- Mental Disorders
- Recurrence
- Schizophrenia
- Schizophrenic Psychology
- Weight Gain

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