

Product Name: GluR-2 (Phospho-Tyr876) Rabbit Polyclonal Antibody Catalog #: APRab05748

For research use only.

Summary

Description Rabbit polyclonal Antibody

Rabbit Host

Application WB,IHC,ICC/IF

Reactivity Human, Mouse, Rat Conjugation Unconjugated Modification Phosphorylated

Isotype IgG

Clonality Polyclonal Form Liquid Concentration 1mg/ml

Storage Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.

Shipping

Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type **Buffer**

preservative N.

Purification Affinity purification

Application

Dilution Ratio WB 1:500-1:2000,IHC 1:50-1:200,ICC/IF 1:50-1:200

Molecular Weight 99kDa

Antigen Information

Gene Name GRIA2 GLUR2

Glutamate receptor 2 (GluR-2;AMPA-selective glutamate receptor 2;GluR-B;GluR-

Alternative Names K2; Glutamate receptor ionotropic, AMPA 2; GluA2)

Gene ID 2891.0 SwissProt ID P42262

Synthesized peptide derived from human GluR-2 (Phospho-Tyr876) **Immunogen**

Background

Glutamate receptors are the predominant excitatory neurotransmitter receptors in the mammalian brain and are activated in a

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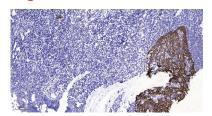


variety of normal neurophysiologic processes. This gene product belongs to a family of glutamate receptors that are sensitive to alpha-amino-3-hydroxy-5-methyl-4-isoxazole propionate (AMPA), and function as ligand-activated cation channels. These channels are assembled from 4 related subunits, GRIA1-4. The subunit encoded by this gene (GRIA2) is subject to RNA editing (CAG->CGG; Q->R) within the second transmembrane domain, which is thought to 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 relevant to amyotrophic lateral sclerosis (ALS) etiology. Alternative splicing, resulting in transcript variants encofunction:Ionotropic glutamate receptor. L-glutamate acts as an excitatory neurotransmitter at many synapses in the central nervous system. Binding of the excitatory neurotransmitter L-glutamate induces a conformation change, leading to the opening of the cation channel, and thereby converts the chemical signal to an electrical impulse. The receptor then desensitizes rapidly and enters a transient inactive state, characterized by the presence of bound agonist, miscellaneous: The postsynaptic actions of Glu are mediated by a variety of receptors that are named according to their selective agonists. This receptor binds AMPA (quisqualate) > glutamate > kainate.,PTM:Palmitoylated. Depalmitoylated upon glutamate stimulation. Cys-610 palmitoylation leads to Golgi retention and decreased cell surface expression. In contrast, Cys-836 palmitoylation does not affect cell surface expression but regulates stimulation-dependent endocytosis., RNA editing: Partially edited. Fully edited in the brain. Heteromerically expressed edited GLUR2 (R) receptor complexes are impermeable to calcium, whereas the unedited (Q) forms are highly permeable to divalent ions., similarity: Belongs to the glutamate-gated ion channel (TC 1.A.10) family,,subunit:Homotetramer or heterotetramer of pore-forming glutamate receptor subunits. Tetramers may be formed by the dimerization of dimers. May interact with MPP4. Forms a ternary complex with GRIP1 and CSPG4. Interacts with PRKCABP, GRIP1 and GRIP2.,

Research Area

Neuroscience

Image Data



Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Antibody was diluted at 1:200 (4° overnight) . 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200 (room temperature, 45min) .

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