GRIA2 Polyclonal Antibody

E90111a

Catalog Number:E90111a

Host Species: Rabbit

Clonality: Polyclonal

Isotype: IgG

Purification: Affinity purification

Buffer:PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Applications:WB 1:500 - 1:2000 IF 1:50 - 1:200

Species Reactivity: Human,Mouse,Rat

Immunogen Description: Recombinant protein of human GRIA2 (NP_001077088.1).

NCBI Gene ID:2891

Calculated MW:93kDa/98kDa/100kDa

Storage: Store at -20℃. Avoid freeze / thaw cycles.

Swiss-Prot No.:P42262

Background: 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 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 encoding different isoforms, (including the flip and flop isoforms that vary in their signal transduction properties), has been noted for this gene.

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