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[Marker Primary Antibody]

Rabbit Anti-GluR1/HRP Conjugated antibody

Catalog Number: SL10042R-HRP

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-GluR1/HRP
Immunogen:	KLH conjugated synthetic peptide derived from human GluR1
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	WB=1:500-2000 ELISA=1:100-1000 IHC-P=1:50-200 IHC-F=1:50-200 ICC=1:50-200 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Mouse,Rat
Background:	background: Glutamate receptors are the predominant excitatory neurotransmitter receptors in the mammalian brain and are activated in a variety of normal neurophysiologic processes. These receptors are heteromeric protein complexes with multiple subunits, each possessing transmembrane regions, and all arranged to form a ligand-gated ion channel. The classification of glutamate receptors is based on their activation by different pharmacologic agonists. This gene belongs to a family of alpha-amino-3-hydroxy-5-methyl-4-isoxazole propionate (AMPA) receptors. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]. **Function:** 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

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	signal to an electrical impulse. The receptor then desensitizes rapidly and enters a transient inactive state, characterized by the presence of bound agonist. **Subunit:** Homotetramer or heterotetramer of pore-forming glutamate receptor subunits. Tetramers may be formed by the dimerization of dimers. Interacts with DLG1 via its C-terminus. Interacts with SYNDIG1 and GRIA2. Interacts with LRFN. Interacts with HIP1 and RASGRF2. Found in a complex with GRIA2, GRIA3, GRIA4, CNIH2, CNIH3, CACNG2, CACNG3, CACNG4, CACNG5, CACNG7 and CACNG8. Interacts with CACNG5. Interacts with CNIH2 and CACNG2. **Subcellular Location:** Cell membrane; Multi-pass membrane protein. Endoplasmic reticulum membrane; Multi-pass membrane protein. Cell junction, synapse, postsynaptic cell membrane; Multi-pass membrane protein. Cell junction, synapse, postsynaptic cell membrane, postsynaptic density. Cell projection, dendrit. Cell projection, dendritic spine. Note=Interaction with CACNG2, CNIH2 and CNIH3 promotes cell surface expression. **Tissue Specificity:** Widely expressed in brain. **Post-translational modifications:** Palmitoylated. Depalmitoylated upon glutamate stimulation. Cys-603 palmitoylation leads to Golgi retention and decreased cell surface expression. In contrast, Cys-829 palmitoylation does not affect cell surface expression but regulates stimulation-dependent endocytosis. **Similarity:** Belongs to the glutamate-gated ion channel (TC 1.A.10.1) family. GRIA1 subfamily. **Database links:** **Entrez Gene:** 2890 Human **Entrez Gene:** 14799 Mouse **Entrez Gene:** 50592 Rat Omim: 138248 Human **SwissProt:** P42261 Human **SwissProt:** P23818 Mouse **SwissProt:** P19490 Rat **Unigene:** 519693 Human **Unigene:** 4920 Mouse **Unigene:** 29971 Rat Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.