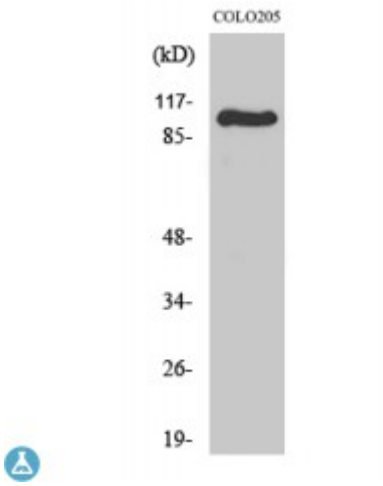
# Anti-GluR-1 antibody

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| **Description** | Rabbit polyclonal to GluR-1. |

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| **Model** | STJ93286 |
| **Host** | Rabbit |
| **Reactivity** | Human, Mouse, Rat |
| **Applications** | ELISA, IF, IHC, WB |
| **Immunogen** | Synthesized peptide derived from human GluR-1 around the non-phosphorylation site of S849. |
| **Immunogen Region** | 790-870 aa |
| **Gene ID** | 2890 |
| **Gene Symbol** | GRIA1 |
| **Dilution range** | WB 1:500-1:2000IHC 1:100-1:300IF 1:200-1:1000ELISA 1:40000 |
| **Specificity** | GluR-1 Polyclonal Antibody detects endogenous levels of GluR-1 protein. |
| **Tissue Specificity** | Widely expressed in brain. |
| **Purification** | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| **Note** | For Research Use Only (RUO). |
| **Protein Name** | Glutamate receptor 1 GluR-1 AMPA-selective glutamate receptor 1 GluR-A GluR-K1 Glutamate receptor ionotropic, AMPA 1 GluA1 |
| **Molecular Weight** | 95 kDa |
| **Clonality** | Polyclonal |

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| **Conjugation** | Unconjugated |
| **Isotype** | IgG |
| **Formulation** | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |
| **Concentration** | 1 mg/ml |
| **Storage Instruction** | Store at -20°C, and avoid repeat freeze-thaw cycles. |
| **Database Links** | HGNC:4571OMIM:138248 |
| **Alternative Names** | Glutamate receptor 1 GluR-1 AMPA-selective glutamate receptor 1 GluR-A GluR-K1 Glutamate receptor ionotropic, AMPA 1 GluA1 |
| **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 signal to an electrical impulse. The receptor then desensitizes rapidly and enters a transient inactive state, characterized by the presence of bound agonist. In the presence of CACNG4 or CACNG7 or CACNG8, shows resensitization which is characterized by a delayed accumulation of current flux upon continued application of glutamate. |
| **Sequence and Domain Family** | The M4 transmembrane segment mediates tetramerization and is required for cell surface expression. |
| **Cellular Localization** | Cell membrane Endoplasmic reticulum membrane Cell junction, synapse, postsynaptic cell membrane Cell junction, synapse, postsynaptic cell membrane, postsynaptic density Cell projection, dendrite Cell projection, dendritic spine. Interaction with CACNG2, CNIH2 and CNIH3 promotes cell surface expression. |
| **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 . Phosphorylated at Ser-645. Phosphorylated at Ser-710 by PKC. Phosphorylated at Ser-849 by PKC, PKA and CAMK2. Phosphorylated at Ser-863 by PKC, PKA and PRKG2. |