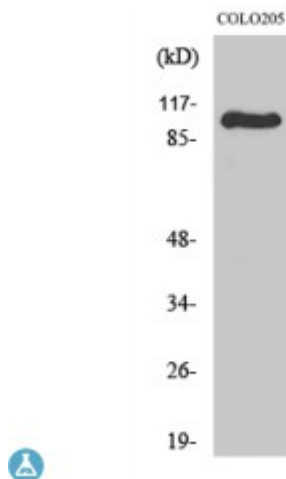


Anti-GluR-1 antibody



Description	Rabbit polyclonal to GluR-1.
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

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.