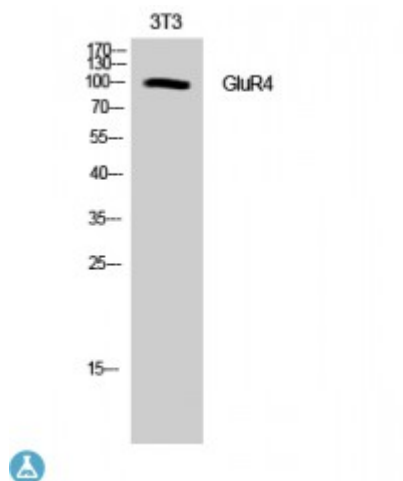


## Anti-GluR4 antibody



|                         |                                                                                                                          |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>      | Rabbit polyclonal to GluR4.                                                                                              |
| <b>Model</b>            | STJ93289                                                                                                                 |
| <b>Host</b>             | Rabbit                                                                                                                   |
| <b>Reactivity</b>       | Human, Mouse, Rat                                                                                                        |
| <b>Applications</b>     | ELISA, IHC, WB                                                                                                           |
| <b>Immunogen</b>        | Synthesized peptide derived from human GluR4 around the non-phosphorylation site of S862.                                |
| <b>Immunogen Region</b> | 800-880 aa                                                                                                               |
| <b>Gene ID</b>          | <a href="#">2893</a>                                                                                                     |
| <b>Gene Symbol</b>      | <a href="#">GRIA4</a>                                                                                                    |
| <b>Dilution range</b>   | WB 1:500-1:2000IHC 1:100-1:300ELISA 1:20000                                                                              |
| <b>Specificity</b>      | GluR4 Polyclonal Antibody detects endogenous levels of GluR4 protein.                                                    |
| <b>Purification</b>     | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.    |
| <b>Note</b>             | For Research Use Only (RUO).                                                                                             |
| <b>Protein Name</b>     | Glutamate receptor 4 GluR-4 GluR4 AMPA-selective glutamate receptor 4 GluR-D Glutamate receptor ionotropic, AMPA 4 GluA4 |
| <b>Molecular Weight</b> | 100 kDa                                                                                                                  |
| <b>Clonality</b>        | Polyclonal                                                                                                               |
| <b>Conjugation</b>      | Unconjugated                                                                                                             |

|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Isotype</b>                          | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Formulation</b>                      | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Concentration</b>                    | 1 mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Storage Instruction</b>              | Store at -20°C, and avoid repeat freeze-thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Database Links</b>                   | <a href="#">HGNC:4574OMIM:138246</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Alternative Names</b>                | Glutamate receptor 4 GluR-4 GluR4 AMPA-selective glutamate receptor 4 GluR-D Glutamate receptor ionotropic, AMPA 4 GluA4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Function</b>                         | Receptor for glutamate that functions as ligand-gated ion channel in the central nervous system and plays an important role in excitatory synaptic transmission. 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. |
| <b>Sequence and Domain Family</b>       | The M4 transmembrane segment mediates tetramerization and is required for cell surface expression.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Cellular Localization</b>            | Cell membrane. Multi-pass membrane protein. Cell junction, synapse, postsynaptic cell membrane. Multi-pass membrane protein. Cell projection, dendrite. Interaction with CNIH2, CNIH3 and PRKCG promotes cell surface expression.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Post-translational Modifications</b> | Palmitoylated. Depalmitoylated upon glutamate stimulation. Cys-611 palmitoylation leads to Golgi retention and decreased cell surface expression. In contrast, Cys-837 palmitoylation does not affect cell surface expression but regulates stimulation-dependent endocytosis . Phosphorylated at Ser-862 by PRKCG; phosphorylation increases plasma membrane-associated GRI4 expression.                                                                                                                                                                                                                                                                                                                                                                                               |