

## Goat GluR4/AMPA4 Antibody | anti-GluR4/AMPA4 antibody

GluR4/AMPA4

|                              |                     |                                                |                                                                  |
|------------------------------|---------------------|------------------------------------------------|------------------------------------------------------------------|
| CATALOG #<br><b>AAA76600</b> | HOST<br><b>Goat</b> | REACTIVITY<br><b>Human, Mouse, Rat, Bovine</b> | APPLICATIONS<br><b>ELISA, Immunohistochemistry, Western Blot</b> |
|------------------------------|---------------------|------------------------------------------------|------------------------------------------------------------------|

### PRODUCT SYNONYMS

GluR4/AMPA4; anti-GluR4/AMPA4 antibody

### PRODUCT SPECIFICATIONS

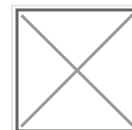
|                                                       |                                                                                                                                                 |
|-------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                                  | Goat                                                                                                                                            |
| Reactivity                                            | Human, Mouse, Rat, Bovine                                                                                                                       |
| Isotype                                               | IgG                                                                                                                                             |
| Purity/Purification                                   | Affinity Purified                                                                                                                               |
| Form/Format                                           | Liquid                                                                                                                                          |
| Sequence Length                                       | 902                                                                                                                                             |
| Applicable Applications for anti-GluR4/AMPA4 antibody | ELISA, IHC (Immunohistochemistry), WB (Western Blot)                                                                                            |
| Immunogen                                             | Synthetic peptide: C-KKLDQREYPGSETP, from the internal region of the protein sequence according to NP_000820.3; NP_001070711.1; NP_001070712.1. |

### IMAGES



#### IHC (Immunohistochemistry)

GluR4 staining of human brain tissue, cortex (formalin-fixed paraffin-embedded) at 5 ug/ml followed by biotinylated horse anti-goat IgG secondary antibody, alkaline phosphatase-streptavidin and chromogen. Protocol on data-sheet.



#### IHC (Immunohistochemistry)

GluR4 (0.3ug/ml) staining of Human Cerebellum lysate (35ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

### ADDITIONAL INFORMATION

#### Related Product Information for anti-GluR4/AMPA4 antibody

Human glutamate receptor 4 (GRIA4) is a new member of the family of ionotropic glutamate receptors which are the predominant excitatory neurotransmitter receptors in the mammalian brain. Binding studies showed that human GluR4 transfected into simian kidney cells (COS-1) exhibits high specific binding for [3H](RS)-alpha-amino-3-hydroxy-5-methylisoxazole-4-propionic acid ([3H]AMPA) but not [3H]kainate. Ion substitution experiments indicate that hGluR4 receptor-linked ion channels in their homomeric state are permeable to both CA2+ and Na+ ions. Immunoprecipitation studies suggest that GRIA1 exists in situ in the form of a pentamer.

Nociceptors, involved primarily in the mediation of neuropathic pain, may be presynaptically modulated by GluR4-containing AMPA receptors.

### NCBI AND UNIPROT INFORMATION

|           |           |
|-----------|-----------|
| NCBI GI # | 164419734 |
|-----------|-----------|

|                                  |                                                   |
|----------------------------------|---------------------------------------------------|
| NCBI GeneID                      | 2893                                              |
| NCBI Accession #                 | NP_000820.3                                       |
| NCBI GenBank Nucleotide #        | NM_000829.3                                       |
| UniProt Accession #              | P48058                                            |
| NCBI Official Full Name          | glutamate receptor 4 isoform 1                    |
| NCBI Official Synonym Full Names | glutamate ionotropic receptor AMPA type subunit 4 |
| NCBI Official Symbol             | GRIA4                                             |
| NCBI Official Synonym Symbols    | GLUR4; GLURD; GluA4; GLUR4C; NEDSGA               |
| NCBI Protein Information         | glutamate receptor 4                              |
| UniProt Protein Name             | Glutamate receptor 4                              |
| UniProt Gene Name                | <b>GRIA4</b>                                      |
| UniProt Synonym Gene Names       | GLUR4; GluR-4; GluR4; GluA4                       |
| UniProt Entry Name               | GRIA4_HUMAN                                       |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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