

## Rabbit GRIA3 Polyclonal Antibody | anti-GRIA3 antibody

GRIA3 Antibody

| CATALOG # | HOST   | REACTIVITY                | APPLICATIONS                                                                |
|-----------|--------|---------------------------|-----------------------------------------------------------------------------|
| AAA326072 | Rabbit | Human, Mouse, Rat, Monkey | Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot |

### PRODUCT SYNONYMS

GRIA3; Polyclonal Antibody; GRIA3 Antibody; AMPA 3; AMPA selective glutamate receptor 3; AMPA-selective glutamate receptor 3; dJ1171F9.1; GluA3; GLUK3; GluR 3; GLUR C; GLUR K3; GluR-3; GluR-C; GluR-K3; GLUR3; GLURC; Glutamate ionotropic receptor AMPA type subunit 3; Glutamate receptor 3; Glutamate receptor C; Glutamate receptor ionotropic AMPA 3; Glutamate receptor ionotropic; Glutamate receptor subunit 3; Glutamate receptor; ionotropic; GRIA 3; Gria3; GRIA3\_HUMAN; Ionotropic Glutamate Receptor; MRX94; anti-GRIA3 antibody

### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                         |
|-------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                  |
| Reactivity                                      | Human, Mouse, Rat, Monkey                                                                               |
| Clonality                                       | Polyclonal                                                                                              |
| Isotype                                         | IgG                                                                                                     |
| Purity/Purification                             | The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.           |
| Form/Format                                     | Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.                     |
| Concentration                                   | ~1 mg/ml (varies by lot)                                                                                |
| Sequence Length                                 | 894                                                                                                     |
| Applicable Applications for anti-GRIA3 antibody | ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)       |
| Immunogen                                       | A synthesized peptide derived from human GRIA3 corresponding to a region within C-terminal amino acids. |
| Preparation and Storage                         | Store at -20 degree C. Stable for 12 months from date of receipt.                                       |

### IMAGES



#### IF (Immunofluorescence)

AAA326072 staining HeLa cells by IF/ICC. The samples were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25°C. Samples were then incubated with primary Ab (AAA326072 1:200) and mouse anti-beta tubulin Ab for 1 hour at 37°C. An AlexaFluor594 conjugated goat anti-rabbit IgG(H+L) Ab(Red) and an AlexaFluor488 conjugated goat anti-mouse IgG(H+L) Ab(Green) were used as the secondary antibody. The nuclear counter stain is DAPI(blue).

ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-GRIA3 antibody | Description: AMPA- (?-amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid), kainite- and NMDA- (N-methyl-D-aspartate) receptors are the three main families of ionotropic glutamate-gated ion channels. AMPA receptors (AMPA receptors) are comprised of four subunits (GluR 1-4) that assemble as homo- or hetero-tetramers and mediate the majority of fast excitatory transmissions in the CNS. AMPARs are implicated in synapse formation, stabilization and plasticity. Post-transcriptional modifications (alternative splicing and nuclear RNA editing) and post-translational modifications (glycosylation, phosphorylation) result in a very large number of permutations, fine-tuning the kinetic properties of AMPARs (1). GluR 3 knockout mice exhibited normal basal synaptic transmission and long-term depression (LTD) but enhanced long-term potentiation (LTP). In contrast, GluR 2/3 double knockout mice are impaired in basal synaptic transmission (2). Aberrant GluR 3 expression or activity is implicated in a number of diseases, including autoimmune epilepsy, X-linked mental retardation, Rett's syndrome, amyotrophic lateral sclerosis and Alzheimer disease (3). |
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NCBI AND UNIPROT INFORMATION

|                                  |                                                                |
|----------------------------------|----------------------------------------------------------------|
| NCBI GI #                        | 163659858                                                      |
| NCBI GeneID                      | 2892                                                           |
| NCBI Accession #                 | NP_000819.3                                                    |
| NCBI GenBank Nucleotide #        | NM_000828.4                                                    |
| UniProt Accession #              | P42263; Q4VXD5; Q4VXD6; Q9HDA0; Q9HDA1; Q9HDA2; Q9P0H1; D3DTF1 |
| Molecular Weight                 | 101kDa                                                         |
| NCBI Official Full Name          | glutamate receptor 3 isoform 2                                 |
| NCBI Official Synonym Full Names | glutamate ionotropic receptor AMPA type subunit 3              |
| NCBI Official Symbol             | GRIA3                                                          |
| NCBI Official Synonym Symbols    | GLUR3; GLURC; GluA3; MRX94; GLUR-C; GLUR-K3                    |
| NCBI Protein Information         | glutamate receptor 3                                           |
| UniProt Protein Name             | Glutamate receptor 3                                           |
| UniProt Gene Name                | GRIA3                                                          |
| UniProt Synonym Gene Names       | GLUR3; GLURC; GluR-3; GluA3                                    |

**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.