

Anti-GRIA2 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat (predicted:Dog,Pig)
Molecular Weight:	Theoretical: 97 kDa. Actual: 117 kDa.
Purification:	Protein A purified

Applications

1. Tissue/cell: mouse brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Incubation: Anti-GLUR2 Polyclonal Antibody, Unconjugated (TMAB-00811) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining.

2. Blank control: RSC96 (blue)

Isotype Control Antibody: Rabbit IgG (orange);

Secondary Antibody: Goat anti-rabbit IgG-AF647 (white blue),

Dilution: 1:100 in 1 X PBS containing 0.5% BSA;

Primary Antibody Dilution: 1 µg

L in 100 uL1X PBS containing 0.5% BSA (green).

3. Blank control: RSC96 (blue)

Isotype Control Antibody: Rabbit IgG-AF647 (orange);

Primary Antibody Dilution: 5ul in 100uL1X PBS containing 0.5% BSA (green).

4. Sample: HepG2 Cell Lysate at 30 µg

Verified Activity: Primary: Anti-GluR2 (TMAB-00811) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 97 kDa

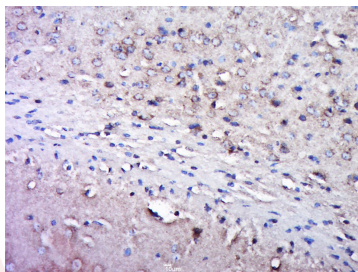
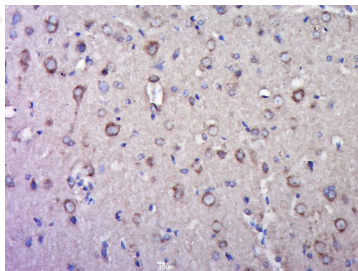
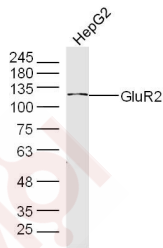
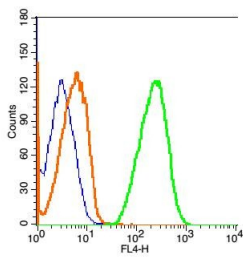
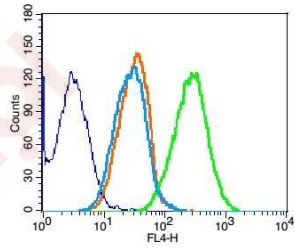
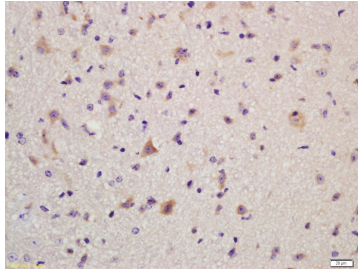
Observed band size: 117 kDa

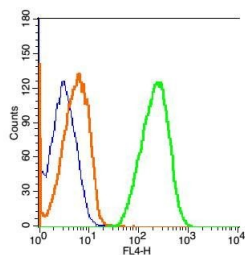
5. Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (GLUR2) Polyclonal Antibody, Unconjugated (TMAB-00811) at 1:500 overnight at 4°C, followed by a conjugated secondary for 20 min and DAB staining.

6. Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (GLUR2) Polyclonal Antibody, Unconjugated (TMAB-00811) at 1:500 overnight at 4°C, followed by a conjugated secondary for 20 min and DAB staining.

7. Blank control: RSC96 (blue)

Isotype Control Antibody: Rabbit IgG-AF647 (orange); Primary Antibody Dilution: 5ul in 100uL1X PBS containing 0.5% BSA (green).





Application: FCM,IF,IHC-Fr,IHC-P,WB

Recommended WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500; FCM: 1µg /test

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: KLH conjugated synthetic peptide: human GluR2

Antigen Species: Human

Gene ID: 2891

Uniprot ID: P42262

Synonyms: Glutamate receptor 2;AMPA-selective glutamate receptor 2;GluR-B;GLUR2;GluA2;GluR-2;GluR-K2;GRIA2;Glutamate receptor ionotropic, AMPA 2

Biology Area: Glutamate Receptors,Glutamate

Research Background

Glutamate receptors are the predominant excitatory neurotransmitter receptors in the mammalian brain and are activated in a variety of normal neurophysiologic processes. This gene product belongs to a family of glutamate receptors that are sensitive to alpha-amino-3-hydroxy-5-methyl-4-isoxazole propionate(AMPA), and function as ligand-activated cation channels. These channels are assembled from 4 related subunits, Gria1-4. The subunit encoded by this gene (Gria2) is subject to RNA editing(CAG->CGG; Q->R) within the second transmembrane domain, which is thought to render the channel impermeable to Ca(2+). Alternative splicing, resulting in transcript variants encoding different isoforms, (including the flip and flop isoforms that vary in their signal transduction properties), has been noted for this gene.

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