bs-1798R **[Primary Antibody]**

GLUR2 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 2891 **SWISS:** P42262

Target: GLUR2

Immunogen: KLH conjugated synthetic peptide derived from human GluR2 : 151-250/883. < Extracellular >

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

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.

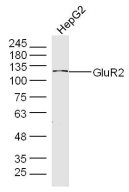
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (1μg /test)

Reactivity: Human, Mouse, Rat (predicted: Pig, Dog)

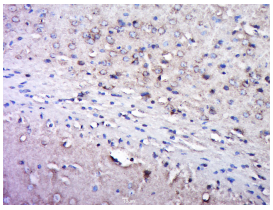
Predicted MW.: 97 kDa

Subcellular Location: Cell membrane ,Cytoplasm

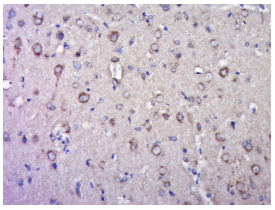
VALIDATION IMAGES



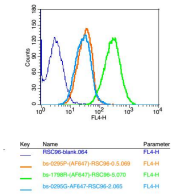
Sample: HepG2 Cell Lysate at 30 ug Primary: Anti-GluR2 (bs-1798R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 97 kD Observed band size: 117 kD



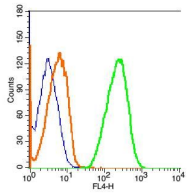
Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (GLUR2) Polyclonal Antibody, Unconjugated (bs-1798R) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (GLUR2) Polyclonal Antibody, Unconjugated (bs-1798R) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



Blank control: RSC96(blue) Isotype Control Antibody: Rabbit IgG(orange) ; Secondary



Blank control: RSC96(blue) Isotype Control Antibody: Rabbit IgG-AF647(orange) ; Primary

Antibody: Goat anti-rabbit IgG-AF647(white blue), Dilution: 1:100 in 1 X PBS containing 0.5% BSA ; Primary Antibody Dilution: 1ugl in 100 uL1X PBS containing 0.5% BSA(green).

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

SELECTED CITATIONS

- **[IF=13.352]** Tingting Ku. et al. Tebuconazole mediates cognitive impairment via the microbe-gut-brain axis (MGBA) in mice. ENVIRON INT. 2023 Feb;:107821 WB ;Mouse. 36827814
- **[IF=8.58]** Ku, Tingting, et al. "NF-κB-regulated microRNA-574-5p underlies synaptic and cognitive impairment in response to atmospheric PM 2.5 aspiration." Particle and Fibre Toxicology 14.1 (2017): 34. WB ;="Mouse". 28851397
- **[IF=6.105]** Ku et al. NF-κB-regulated microRNA-574-5p underlies synaptic and cognitive impairment in response to atmospheric PM2.5 aspiration. (2017) Part.Fibre.Toxicol. 14:34 WB ;Mouse. 28851397
- **[IF=4.12]** Ko et al. Smartphone-enabled optofluidic exosome diagnostic for concussion recovery. (2016) Sci.Rep. 6:31215 Other ;Human, Mouse, Rat, Dog,. 27498963
- **[IF=3.793]** Jina Ko. et al. Multi-Dimensional Mapping of Brain-Derived Extracellular Vesicle MicroRNA Biomarker for Traumatic Brain Injury Diagnostics. J Neurotraum. 2020 Oct;37(22):2424-2434 Other ;. 30950328