

**bs-12061R****[ Primary Antibody ]****GABRA2 Rabbit pAb****BioSS**  
**ANTIBODIES**

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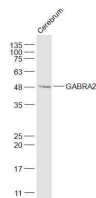
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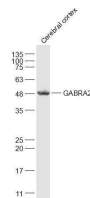
400-901-9800

**DATASHEET****Host:** Rabbit**Isotype:** IgG**Clonality:** Polyclonal**GeneID:** 2555**SWISS:** P47869**Target:** GABRA2**Immunogen:** KLH conjugated synthetic peptide derived from human GABRA2: 185-280/451.**Purification:** affinity purified by Protein A**Concentration:** 1mg/ml**Storage:** 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

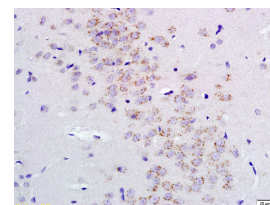
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

**Background:** GABA is the major inhibitory neurotransmitter in the mammalian brain where it acts at GABA-A receptors, which are ligand-gated chloride channels. Chloride conductance of these channels can be modulated by agents such as benzodiazepines that bind to the GABA-A receptor. At least 16 distinct subunits of GABA-A receptors have been identified. Alternatively spliced transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jul 2008]**Applications:** WB (1:500-2000)**IHC-P** (1:100-500)**IHC-F** (1:100-500)**IF** (1:100-500)**Flow-Cyt** (1µg/Test)**Reactivity:** Mouse, Rat  
(predicted: Human, Rabbit, Pig, Cow, Dog, Horse)**Predicted MW.:** 48 kDa**Subcellular Location:** Cell membrane**VALIDATION IMAGES**

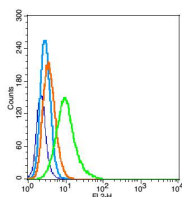
Sample: Cerebrum (Mouse) Lysate at 40 ug  
 Primary: Anti-GABRA2 (bs-12061R) at 1/1000  
 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 48 kD Observed band size: 48 kD



Sample: Cerebral cortex(Rat) Lysate at 40 ug  
 Primary: Anti-GABRA2 (bs-12061R) at 1/1000  
 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 48 kD Observed band size: 48 kD



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Incubation: Anti-GABRA2 Polyclonal Antibody, Unconjugated(bs-12061R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Blank control(blue):RSC96 (fixed with 2% paraformaldehyde (10 min)). Primary Antibody:Rabbit Anti- GABRA2 antibody(bs-12061R), Dilution: 1µg in 100 µL 1X PBS containing 0.5% BSA; Isotype Control Antibody: Rabbit IgG(orange) ,used under the

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same conditions ); Secondary Antibody: Goat  
anti-rabbit IgG-PE(white blue), Dilution: 1:200 in  
1 X PBS containing 0.5% BSA.

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## — SELECTED CITATIONS —

- **[IF=9.3]** Arenas Yaiza M.. et al. A transient blood IL-17 increase triggers neuroinflammation in cerebellum and motor incoordination in hyperammonemic rats. J NEUROINFLAMM. 2024 Dec;21(1):1-22 WB ;Rat. 39616376
- **[IF=7.1]** Gergana Mincheva. et al. Extracellular vesicles from mesenchymal stem cells improve neuroinflammation and neurotransmission in hippocampus and cognitive impairment in rats with mild liver damage and minimal hepatic encephalopathy. STEM CELL RES THER. 2024 Dec;15:472 WB ;Rat. 39696620
- **[IF=5.59]** Sancho-Alonso, María. et al. Hyperammonemia Enhances GABAergic Neurotransmission in Hippocampus: Underlying Mechanisms and Modulation by Extracellular cGMP. Mol Neurobiol. 2022 Mar;1-18 WB ;Rat. 35320456
- **[IF=6.208]** Yaiza M. Arenas. et al. Enhanced BDNF and TrkB Activation Enhance GABA Neurotransmission in Cerebellum in Hyperammonemia. INT J MOL SCI. 2022 Jan;23(19):11770 WB ;Rat. 36233065