

**bs-12014R****[ Primary Antibody ]****BioSS**  
ANTIBODIES

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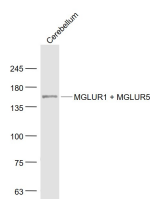
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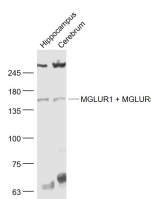
400-901-9800

**GRM1 + GRM5 Rabbit pAb****— DATASHEET —**

<b>Host:</b> Rabbit <b>Clonality:</b> Polyclonal <b>GeneID:</b> 2911 <b>Target:</b> GRM1 + GRM5 <b>Immunogen:</b> KLH conjugated synthetic peptide derived from human MGLUR1 + MGLUR5: 501-600/1194. <b>Purification:</b> affinity purified by Protein A <b>Concentration:</b> 1mg/ml <b>Storage:</b> 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. <b>Background:</b> L-glutamate is the major excitatory neurotransmitter in the central nervous system and activates both ionotropic and metabotropic glutamate receptors. Glutamatergic neurotransmission is involved in most aspects of normal brain function and can be perturbed in many neuropathologic conditions. The metabotropic glutamate receptors are a family of G protein-coupled receptors, that have been divided into 3 groups on the basis of sequence homology, putative signal transduction mechanisms, and pharmacologic properties. Group I includes GRM1 and GRM5 and these receptors have been shown to activate phospholipase C. Group II includes GRM2 and GRM3 while Group III includes GRM4, GRM6, GRM7 and GRM8. Group II and III receptors are linked to the inhibition of the cyclic AMP cascade but differ in their agonist selectivities. The canonical alpha isoform of the metabotropic glutamate receptor 1 gene is a disulfide-linked homodimer whose activity is mediated by a G-protein-coupled phosphatidylinositol-calcium second messenger system. Alternative splicing results in multiple transcript variants encoding distinct isoforms; some of which may have distinct functions. [provided by RefSeq].	<b>Isotype:</b> IgG <b>SWISS:</b> Q13255 <b>Applications:</b> WB (1:500-2000)  <b>Reactivity:</b> Mouse (predicted: Human, Rat, Pig, Sheep, Cow, Chicken, Dog, Horse)  <b>Predicted MW.:</b> 130 kDa  <b>Subcellular Location:</b> Cell membrane
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**— VALIDATION IMAGES —**

Sample: Cerebellum (Mouse) Lysate at 40 ug  
Primary: Anti- MGLUR1 + MGLUR5 (bs-12014R) at 1/1000 dilution  
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
Predicted band size: 130 kD  
Observed band size: 150 kD



Sample: Hippocampus (Mouse) Lysate at 40 ug  
Cerebrum (Mouse) Lysate at 40 ug  
Primary: Anti- MGLUR1 + MGLUR5 (bs-12014R) at 1/1000 dilution  
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
Predicted band size: 130 kD  
Observed band size: 150 kD

**— SELECTED CITATIONS —**

- **[IF=2.666]** X Zhou et al. Modulating NMDA receptors to treat MK-801-induced schizophrenic cognition deficit: effects of clozapine combining with PQQ treatment and possible mechanisms of action. BMC Psychiatry. 2020 Mar 6;20(1):106. WB ;rat. 32143671

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.