

**bs-12012R****[ Primary Antibody ]****MGLUR3 Rabbit pAb****BioSS**  
**ANTIBODIES**

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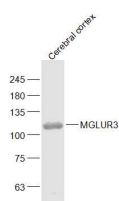
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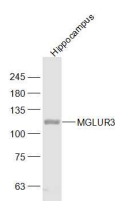
400-901-9800

**— DATASHEET —**

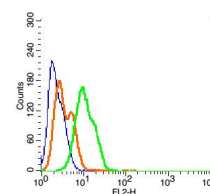
<b>Host:</b> Rabbit	<b>Isotype:</b> IgG	<b>Applications:</b> <b>WB</b> (1:500-2000) <b>Flow-Cyt</b> (5µg/Test)
<b>Clonality:</b> Polyclonal		<b>Reactivity:</b> Mouse (predicted: Human, Rat, Rabbit, Cow, Horse)
<b>GeneID:</b> 2913	<b>SWISS:</b> Q14832	
<b>Target:</b> MGLUR3		<b>Predicted MW.:</b> 96 kDa
<b>Immunogen:</b> KLH conjugated synthetic peptide derived from human Metabotropic Glutamate Receptor 3: 365-460/879. < Extracellular >		<b>Subcellular Location:</b> Cell membrane
<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> Glutamate receptors mediate most excitatory neurotransmission in the brain and play an important role in neural plasticity, neural development and neurodegeneration. Ionotropic glutamate receptors are categorized into NMDA receptors and kainate/AMPA receptors, both of which contain glutamate-gated, cation-specific ion channels. Kainate/AMPA receptors are co-localized with NMDA receptors in many synapses and consist of seven structurally related subunits designated GluR-1 to -7. The kainate/AMPA receptors are primarily responsible for the fast excitatory neurotransmission by glutamate whereas the NMDA receptors are functionally characterized by a slow kinetic and a high permeability for Ca <sup>2+</sup> ions. The NMDA receptors consist of five subunits: epsilon 1, 2, 3, 4 and one zeta subunit. The zeta subunit is expressed throughout the brainstem whereas the four epsilon subunits display limited distribution.		

**— VALIDATION IMAGES —**

Sample: Cerebral cortex (Mouse) Lysate at 40 ug  
 Primary: Anti-MGLUR3 (bs-12012R) at 1/1000 dilution  
 Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
 Predicted band size: 96 kD Observed band size: 116 kD



Sample: Hippocampus (Mouse) Lysate at 40 ug  
 Primary: Anti-MGLUR3 (bs-12012R) at 1/1000 dilution  
 Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
 Predicted band size: 96 kD Observed band size: 116 kD



Blank control: Mouse Liver Cells(fixed with 2% paraformaldehyde (10 min) and then permeabilized with ice-cold 90% methanol for 30 min on ice). Primary Antibody: Rabbit Anti-MGLUR3/PE Conjugated antibody (bs-12012R-PE), Dilution: 5µg in 100 µL 1X PBS containing 0.5% BSA; Isotype Control Antibody: Rabbit IgG/PE(orange) ,used under the same conditions.

**— 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