bs-1247R **[Primary Antibody]**

mGluR5 Rabbit pAb

www.bioss.com.cn
sales@bioss.com.cn
techsupport@bioss.com.cn
400-901-9800

DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 2915 **SWISS:** P41594

Target: mGluR5

Immunogen: KLH conjugated synthetic peptide derived from human GRM5: 201-300/1204. < 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 constitute the principal excitatory neurotransmitter receptors in brain. Two classes of glutamate receptors exist: Ionotropic receptors, and metabotropic receptors (mGluRs). Metabotropic Glutamate Receptor 5b (GRM5) activity is mediated by a G-protein that activates a phosphatidylinositol-calcium second messenger system and generates a calcium-activated chloride current. The metabotropic glutamate receptor type 5 (mGlu5) is expressed in two splice variants, mGlu5a and mGlu5b, which differ in that mGlu5b has a 33-amino acid insert in the intracellular C-terminal domain. This receptor subtype is highly regulated, with higher levels found in developing animals.

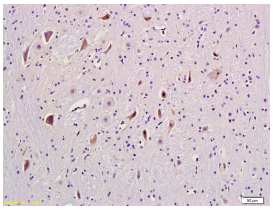
Applications: **IHC-P** (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

Reactivity: Rat (predicted: Human, Mouse, Sheep, Chicken, Dog)

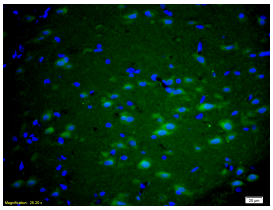
Predicted MW.: 132 kDa

Subcellular Location: Cell membrane

VALIDATION IMAGES



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鈰 for 20 min; Incubation: Anti-GRM5/mGluR5 Polyclonal Antibody, Unconjugated(bs-1247R) 1:200, overnight at 4 掳C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



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SELECTED CITATIONS

- **[IF=15.1]** Edward A. Vizcarra. et al. Group 1 metabotropic glutamate receptor expression defines a T cell memory population during chronic Toxoplasma infection that enhances IFN-gamma and perforin production in the CNS. BRAIN BEHAV IMMUN. 2023 Nov;114:131 FCM ;Mouse. 37604212
- **[IF=5.7]** Yan Xudong. et al. RMRP accelerates ligamentum flavum hypertrophy by regulating GSDMD-mediated

pyroptosis through Gli1 SUMOylation. FRONT IMMUNOL. 2024 Aug;15: WB ;Human. 39221246