



Rabbit Anti-Metabotropic glutamate receptor 2 antibody

SL1161R

Product Name:	Metabotropic glutamate receptor 2
Chinese Name:	促代谢型谷氨酸受体2抗体
Alias:	Metabotropic Glutamate Receptor 2; Glutamate Receptor Metabotropic 2; Gprc1b; AMPA selective glutamate receptor 2; GLUR 2; GLUR2; GLURB; Glutamate receptor metabotropic 2; Metabotropic Glutamate Receptor 2; GPRC1B; GRM 2; Grm2; GRM2; mGlu 2; MGlu2; MGLUR 2; Mglur2; GRM2_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Cow,Horse,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	96kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human GRM2:801-872/872<Cytoplasmic>
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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.

Function:

Receptor for glutamate. The activity of this receptor is mediated by a G-protein that inhibits adenylate cyclase activity. May mediate suppression of neurotransmission or may be involved in synaptogenesis or synaptic stabilization.

Subunit:

Interacts with GRASP.

Subcellular Location:

Cell membrane; Multi-pass membrane protein.

Tissue Specificity:

Widely expressed in different regions of the adult brain as well as in fetal brain.

Similarity:

Belongs to the G-protein coupled receptor 3 family.

SWISS:

Q14416

Gene ID:

2912

Database links:

[Entrez Gene: 2912](#) Human

[Entrez Gene: 108068](#) Mouse

[Entrez Gene: 24415](#) Rat

[Omim: 604099](#) Human

[SwissProt: Q14416](#) Human

[SwissProt: Q14BI2](#) Mouse

[SwissProt: P31421](#) Rat

[Unigene: 121510](#) Human

[Unigene: 410822](#) Mouse

[Unigene: 424639](#) Mouse

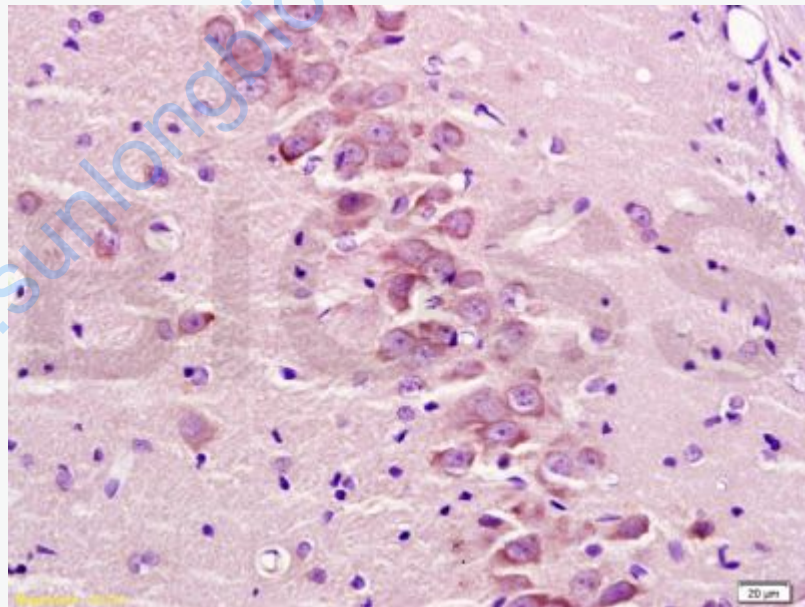
[Unigene: 9681](#) Rat

Important Note:

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

谷氨酸受体-代谢能2;主要参与细胞Signal transduction及突触传递, 在G protein-coupled receptor蛋白Signal transduction途径中有一定的作用, 并且有负调控腺苷酸环化酶的作用, 为膜性蛋白, 在胞膜、胞浆中表达。

Picture:



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-GRM2/GLUR2 Polyclonal Antibody, Unconjugated(SL1161R)
1:300, overnight at 4°C, followed by conjugation to the secondary antibody(SP-
0023) and DAB(C-0010) staining

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