



Rabbit Anti-mGluR5 antibody

SL1247R

Product Name:	mGluR5
Chinese Name:	促代谢型谷氨酸受体5抗体
Alias:	Glutamate receptor metabotropic 5; GPRC1E; GRM 5; GRM5; Metabotropic glutamate receptor 5; mGlu5; mGluR5a; mGluR5b; Metabotropic glutamate receptor 5 variant F; Metabotropic Glutamate Receptor 5b; Metabotropic glutamate receptor 5 variant G; Metabotropic glutamate receptor 5 variant H; PPP1R86; GRM5_HUMAN; GRM5_MOUSE.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Sheep,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=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:	132kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human GRM5:201-300/1204<Extracellular>
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. Multiple transcript variants encoding different isoforms have been found for this gene.

Subunit:

The PPXXF motif binds HOMER1, HOMER2 and HOMER3. Interacts with SIAH1, RYR1, RYR2, ITPR1, SHANK1, SHANK3 and GRASP. Interacts with NCDN.

Subcellular Location:

Cell membrane; Multi-pass membrane protein.

Similarity:

Belongs to the G-protein coupled receptor 3 family

SWISS:

Q3UVX5

Gene ID:

2915

Database links:

[Entrez Gene: 373933](#) Chicken

[Entrez Gene: 2915](#) Human

[Entrez Gene: 108071](#) Mouse

[Entrez Gene: 24418](#) Rat

[Omim: 604102](#) Human

[SwissProt: P41594](#) Human

[SwissProt: Q3UVX5](#) Mouse

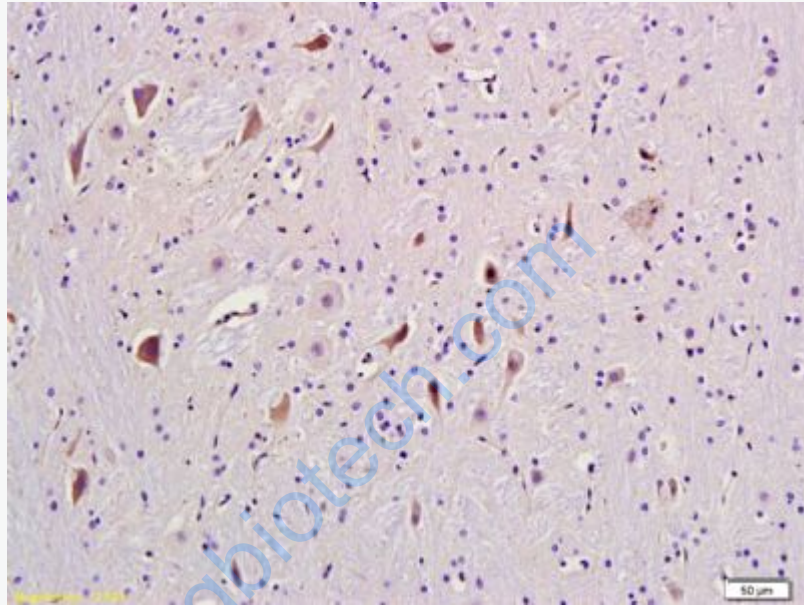
[SwissProt: P31424](#) Rat

[Unigene: 147361](#) Human

[Unigene: 29972](#) Rat

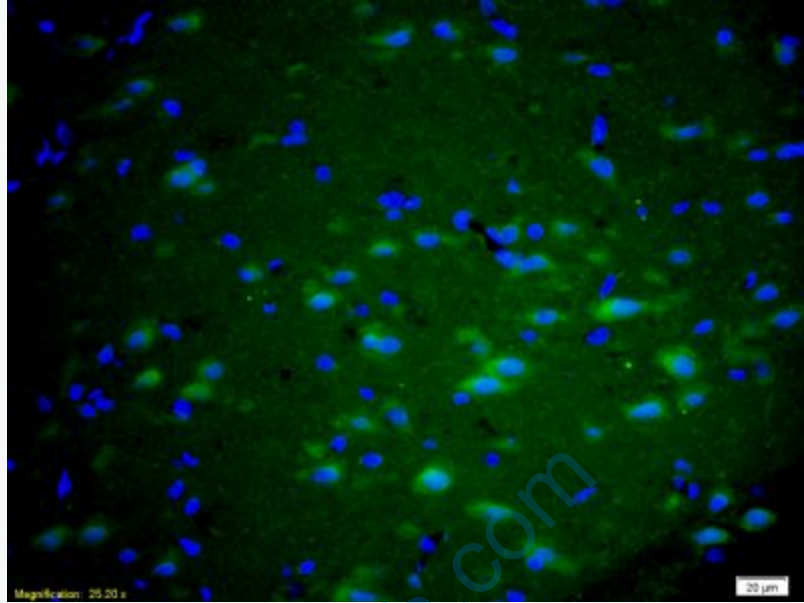
Important Note:

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



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-GRM5/mGluR5 Polyclonal Antibody, Unconjugated(SL1247R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



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1:200, overnight at 4°C; The secondary antibody was Goat Anti-Rabbit IgG, FITC

conjugated(SL1247R)used at 1:200 dilution for 40 minutes at 37°C.

DAPI(5ug/ml,blue,C-0033) was used to stain the cell nuclei