

Rabbit Anti-mGluR5/AF350 Conjugated antibody

SL1247R-AF350

Product Name	Anti-mGluR5/AF350
Chinese Name	AF350 标记的促代谢型谷氨酸受体 5 抗体 Glutamate receptor metabotropic 5; GPRC1E; GRM 5; GRM5; Metabotropic glutamate receptor 5; mGlu5; mGluR5; 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.
Alias	
Research Area	Cell biology immunology Neurobiology G protein-coupled receptor G protein signal
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Rat(predicted:Human,Mouse,Chicken,Dog,Sheep) IF=1:100-500
Applications	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	132kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human GRM5
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol 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 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Storage	
Product Detail	background: 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

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



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[Unigene: 29972](#) Rat

Important Note:

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