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Rabbit Anti-MGLUR5 antibody

SL18801R

Product Name:	MGLUR5
Chinese Name:	代谢型谷氨酸受体5B抗体
Alias:	MGLUR5B; 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;
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Cow,Horse,Sheep,Monkey,
Applications:	WB=1:500-2000ELISA=1:500-1000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	130kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human MGLUR5:431-530/1212<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:	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.

Function:
G-protein coupled receptor for glutamate. Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteKns) and modulates the activity of down-stream effectors. Signaling activates a phosphatidylinositol-calcium second messenger system and generates a calcium-activated chloride current. Plays an important role in the regulation of synaptic plasticity and the modulation of the neural network activity.

Subunit:
The PPXXF motif binds HOMER1, HOMER2 and HOMER3. Interacts with SIAH1, RYR1, RYR2, ITPR1, SHANK1, SHANK3 and GRASP. Interacts with NCDN (By similarity).

Subcellular Location:
Cell Membrane

Similarity:
Belongs to the G-protein coupled receptor 3 family.

SWISS:
P41594

Gene ID:
2915

Database links:

Entrez Gene: 2915 Human

Entrez Gene: 108071 Mouse

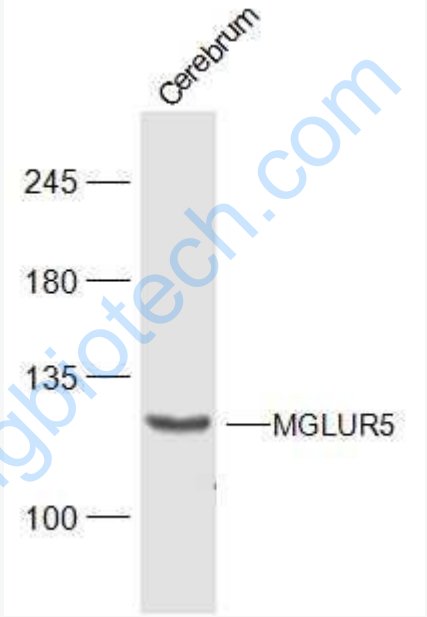
Entrez Gene: 24418 Rat

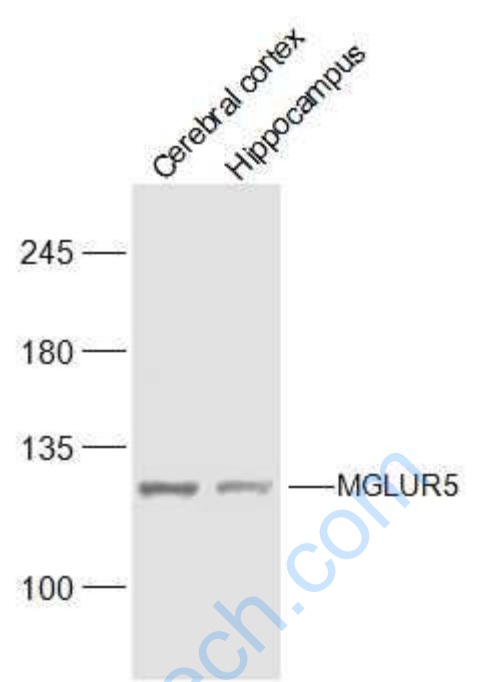
Omim: 604102 Human

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:	 Sample: Cerebrum (Mouse) Lysate at 40 ug Primary: Anti-MGLUR5 (SL18801R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 130 kD Observed band size: 130 kD



Sample:

Cerebral cortex (Mouse) Lysate at 40 ug

Hippocampus (Mouse) Lysate at 40 ug

Primary: Anti-MGLUR5 (SL18801R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 130 kD

Observed band size: 130 kD