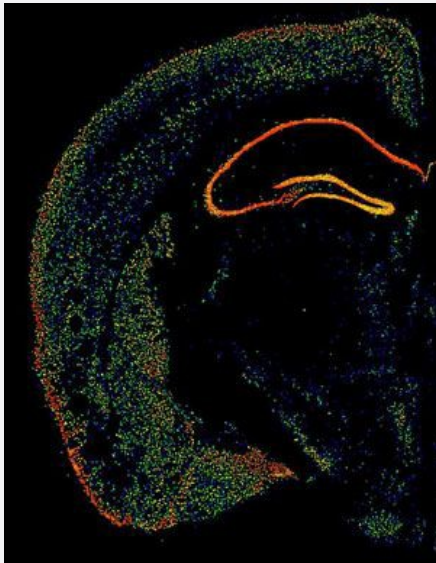


GRM5 polyclonal antibody

Catalog # PAB29072

Size

Applications



GRM5 polyclonal antibody (Cat # PAB29072) was validated by immunocytochemical staining (3 ug/mL).

GRM5-staining of pyramidal and granule cell neurons in the hippocampal formation of an adult mouse brain (red). Green staining is GFP under the control of a constitutive actin promoter.

Specification

Product Description	Chicken polyclonal antibody raised against recombinant Human GRM5.
Immunogen	Three different KLH-conjugated synthetic peptides corresponding to different regions of GRM5 gene product, shared between the human (NP_001137303.1, NCBI) and mouse (Q3UVX5.2, NCBI) sequences.
Host	Chicken
Reactivity	Human, Mouse
Form	Liquid
Purification	Antigen affinity purification
Isotype	IgY

Quality Control Testing

Immunocytochemistry

GRM5 polyclonal antibody (Cat # PAB29072) was validated by immunocytological staining (3 ug/mL).

GRM5-staining of pyramidal and granule cell neurons in the hippocampal formation of an adult mouse brain (red). Green staining is GFP under the control of a constitutive actin promoter.

Recommend Usage

Immunocytochemistry(1:1000-1:2000)

Immunohistochemistry(1:1000-1:2000)

The optimal working dilution should be determined by the end user.

Storage Buffer

In PBS, pH 7.2 (0.02% sodium azide)

Storage Instruction

Store at 4°C and avoid from light.

Aliquot to avoid repeated freezing and thawing.

Note

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Immunohistochemistry
- Immunocytochemistry

Gene Info — GRM5

Entrez GeneID[2915](#)**Protein Accession#**[NP_001137303.1](#)**Gene Name**

GRM5

Gene Alias

GPRC1E, MGLUR5, mGlu5

Gene Description

glutamate receptor, metabotropic 5

Omim ID[604102](#)**Gene Ontology**[Hyperlink](#)

Gene Summary

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. [provided by RefSeq]

Other Designations

-

Gene Info — Grm5

Entrez GeneID

[108071](#)

Protein Accession#

[NP_001137303.1](#)

Gene Name

Grm5

Gene Alias

6430542K11Rik, A1850523, Gprc1e, mGluR5, mGluR5b

Gene Description

glutamate receptor, metabotropic 5

Gene Ontology

[Hyperlink](#)

Gene Summary

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Other Designations

G protein coupled receptor, family C, group 1, member E|G protein-coupled receptor GRM5|G protein-coupled receptor, family C, group 1, member E|metabotropic glutamate receptor 5|metabotropic glutamate receptor subtype 5b|metabotropic glutamate receptor ty

Pathway

- [Calcium signaling pathway](#)
- [Gap junction](#)
- [Long-term depression](#)
- [Long-term potentiation](#)
- [Neuroactive ligand-receptor interaction](#)

Disease

- [Alcoholism](#)
- [Anorexia Nervosa](#)
- [Bulimia](#)
- [Cardiovascular Diseases](#)
- [Cognition](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Mental Disorders](#)
- [Schizophrenia](#)
- [Schizophrenic Psychology](#)
- [Tobacco Use Disorder](#)
- [Weight Gain](#)