

Metabotropic Glutamate Receptor 3 Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6343a

Specification

Metabotropic Glutamate Receptor 3 Antibody (C-term) - Product Information

Application	WB,E
Primary Accession	O14832
Other Accession	O1ZZH1
Reactivity	Human
Predicted	Monkey
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	98879
Antigen Region	828-857

Metabotropic Glutamate Receptor 3 Antibody (C-term) - Additional Information

Gene ID 2913

Other Names

Metabotropic glutamate receptor 3, mGluR3, GRM3, GPRC1C, MGLUR3

Target/Specificity

This Metabotropic Glutamate Receptor 3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 828-857 amino acids from the C-terminal region of human Metabotropic Glutamate Receptor 3.

Dilution

WB~~1:1000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Metabotropic Glutamate Receptor 3 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Metabotropic Glutamate Receptor 3 Antibody (C-term) - Protein Information

Name GRM3

Synonyms GPRC1C, MGLUR3

Function G-protein coupled receptor for glutamate. Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of down-stream effectors. Signaling inhibits adenylate cyclase activity.

Cellular Location

Cell membrane; Multi-pass membrane protein

Tissue Location

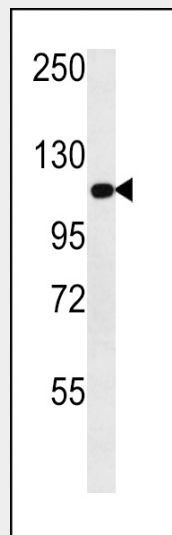
Detected in brain cortex, thalamus, subthalamic nucleus, substantia nigra, hypothalamus, hippocampus, corpus callosum, caudate nucleus and amygdala.

Metabotropic Glutamate Receptor 3 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Metabotropic Glutamate Receptor 3 Antibody (C-term) - Images



GPRC1C Antibody (R841) (Cat. #AP6343a) western blot analysis in NCI-H292 cell line lysates (35ug/lane). This demonstrates the GPRC1C antibody detected the GPRC1C protein (arrow).

Metabotropic Glutamate Receptor 3 Antibody (C-term) - 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 (also known as GPRC1C) 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. The activity of GRM3 is mediated by a G-protein that inhibits adenylate cyclase activity.

Metabotropic Glutamate Receptor 3 Antibody (C-term) - References

- Aronica, E., et al., *Neuroscience* 130(4):927-933 (2005).
Egan, M.F., et al., *Proc. Natl. Acad. Sci. U.S.A.* 101(34):12604-12609 (2004).
Yao, Y., et al., *Biochem. Biophys. Res. Commun.* 319(2):622-628 (2004).
Aronica, E., et al., *Eur. J. Neurosci.* 17(10):2106-2118 (2003).
Scherer, S.W., et al., *Science* 300(5620):767-772 (2003).