10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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	Q14832
Other Accession	Q1ZZH1
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

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

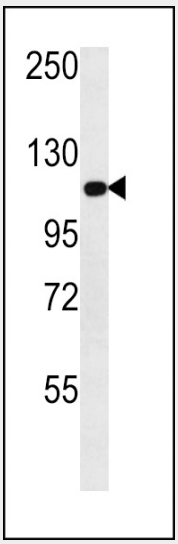
Tissue Location
Detected in brain cortex, thalamus, subthalamic nucleus, substantia nigra, hypothalamus, hippocampus, corpus callosum, caudate nucleus and amygdala.

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 Cytomety
- 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).