

Metabotropic Glutamate Receptor 6 (GPRC1F) Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP1642a**Specification**

Metabotropic Glutamate Receptor 6 (GPRC1F) Antibody (C-term) - Product Information

Application	FC, WB,E
Primary Accession	O15303
Other Accession	NP_000834
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	95468
Antigen Region	832-861

Metabotropic Glutamate Receptor 6 (GPRC1F) Antibody (C-term) - Additional Information**Gene ID** 2916**Other Names**

Metabotropic glutamate receptor 6, mGluR6, GRM6, GPRC1F, MGLUR6

Target/Specificity

This Metabotropic Glutamate Receptor 6 (GPRC1F) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 832-861 amino acids from the C-terminal region of human Metabotropic Glutamate Receptor 6 (GPRC1F).

Dilution

FC~~1:10~50

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 6 (GPRC1F) Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Metabotropic Glutamate Receptor 6 (GPRC1F) Antibody (C-term) - Protein Information**Name** GRM6

Synonyms GPRC1F, MGLUR6

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, such as adenylate cyclase. Signaling inhibits adenylate cyclase activity (By similarity). Signaling stimulates TRPM1 channel activity and Ca(2+) uptake. Required for normal vision.

Cellular Location

Cell membrane; Multi-pass membrane protein. Endoplasmic reticulum membrane; Multi-pass membrane protein. Golgi apparatus membrane; Multi-pass membrane protein. Cell projection, dendrite Note=Subject to trafficking from the endoplasmic reticulum to the Golgi apparatus and then to the cell membrane

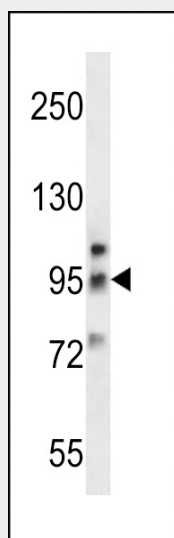
Tissue Location

Detected in melanocytes.

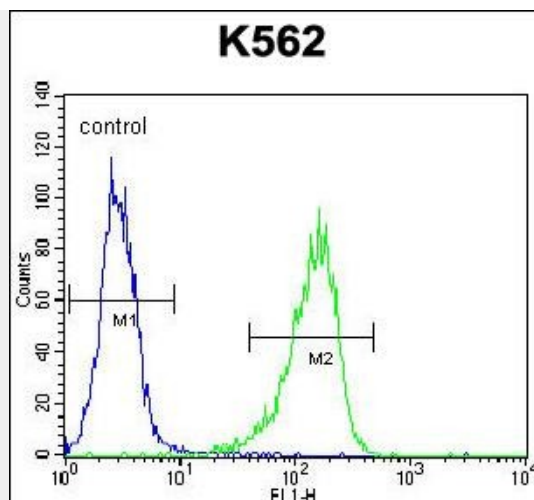
Metabotropic Glutamate Receptor 6 (GPRC1F) Antibody (C-term) - Protocols

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 6 (GPRC1F) Antibody (C-term) - Images

GPRC1F Antibody (P847) (Cat. #AP1642a) western blot analysis in K562 cell line lysates (35ug/lane). This demonstrates the GPRC1F antibody detected the GPRC1F protein (arrow).



Metabotropic Glutamate Receptor 6 (GPRC1F) Antibody (C-term) (Cat. #AP1642a) flow cytometric analysis of K562 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Metabotropic Glutamate Receptor 6 (GPRC1F) 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 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.

Metabotropic Glutamate Receptor 6 (GPRC1F) Antibody (C-term) - References

Hashimoto, T., et al., Eur. J. Neurosci. 9(6):1226-1235 (1997).