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Metabotropic Glutamate Receptor 6 (GPRC1F) Antibody (C-term) Blocking peptide

Synthetic peptide
Catalog # BP1642a

Specification

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

Primary Accession	O15303
Other Accession	NP_000834

Metabotropic Glutamate Receptor 6 (GPRC1F) Antibody (C-term) Blocking peptide - Additional Information

Gene ID 2916

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

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP1642a was selected from the C-term region of human GPRC1F . A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

Metabotropic Glutamate Receptor 6 (GPRC1F) Antibody (C-term) Blocking peptide - Protein Information

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

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

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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) Blocking peptide - Protocols

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

- Blocking Peptides