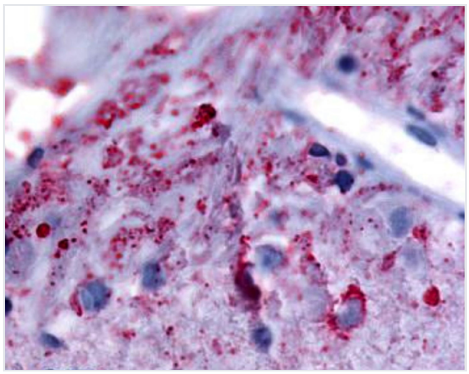
Mglur6 (GRM6) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	mGluR6 (GRM6), Polyclonal Antibody
Full Product Name	mGluR6 (Metabotropic Glutamate Receptor)
Product Gene Name	anti-GRM6 antibody
Product Synonym Names	Anti -mGluR6 (Metabotropic Glutamate Receptor)
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, 0.1% sodium azide.
Purity/Purification	Affinity Purified Purified by immunoaffinity chromatography.
Specificity	Recognizes Human Metabotropic Glutamate Receptor 6 (GRM6). Species Crossreactivity: Human.
Preparation and Storage	May be stored at 4 degree C for short-term only. For long-term storage and to avoid repeated freezing and thawing, add sterile glycerol (40-50%), aliquot and store at -20 degree C. Aliquots are stable for at least 12 months at -20 degree C. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Further dilutions can be made in assay buffer.
Molecular Weight	95,468 Da
Chromosome Location	Chromosome: 5; NC_000005.9 (178405328..178422124, complement). Location: 5q35
OMIM	257270
3D Structure	ModBase 3D Structure for O15303
Immunogen	Synthetic peptide, KLH-conjugated. Epitope: N-terminal extracellular domain of human
Product Categories/Family for anti-GRM6 antibody	Antibodies; Abs to G Protein Receptors
Applications Tested/Suitable for anti-GRM6 antibody	Immunohistochemistry (IHC)
Application Notes for anti-GRM6 antibody	Suitable for use in Immunohistochemistry. Dilution: Immunohistochemistry: 5.6ug/ml
Related Product Information for anti-GRM6 antibody	MBS617394 is an antibody targeting GRM6. Also known as mGluR6 (Metabotropic Glutamate Receptor). Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-GRM6 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Immunohistochemistry (IHC) of anti-GRM6 antibody
GRM6 / MGLUR6 (6ug/ml) was used in IHC to stain formalin-fixed, paraffin-embedded human eye, ganglion cells, followed by biotinylated goat rabbit IgG secondary, alkaline phosphatase-streptavidin and chromogen.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GRM6. It may not necessarily be applicable to this product.

NCBI GI #	110611176
NCBI GeneID	2916
NCBI Accession #	NP_000834.2
UniProt Primary Accession #	O15303
UniProt Related Accession #	O15303; Q5HYM4; Q8NHA9; Q9UGK1; Q9UGK2
GenBank Nucleotide #	NM_000843.3
NCBI Official Full Name	metabotropic glutamate receptor 6
NCBI Official Synonym Full Names	glutamate receptor, metabotropic 6
NCBI Official Symbol	GRM6
NCBI Official Synonym Symbols	mGlu6; CSNB1B; GPRC1F; MGLUR6; DKFZp686H1993
UniProt Protein Name	Metabotropic glutamate receptor 6
Protein Family	Metabotropic glutamate receptor
UniProt Gene Name	GRM6
UniProt Synonym Gene Names	GPRC1F; MGLUR6
UniProt Entry Name	GRM6_HUMAN
NCBI Protein Information	metabotropic glutamate receptor 6; OTTHUMP00000161489
NCBI Summary for GRM6	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. [provided by RefSeq]

UniProt Comments for GRM6	mGluR6: Receptor for glutamate. The activity of this receptor is mediated by a G-protein that inhibits adenylate cyclase activity. Defects in GRM6 are the cause of congenital stationary night blindness type 1B (CSNB1B). This disorder consits of a previously unrecognized, autosomal recessive form of congenital night blindness associated with a negative electroretinogram waveform. Patients are night blind from an early age, and when maximally dark-adapted, they could perceive lights only with an intensity equal to or slightly dimmer than that normally detected by the cone system. ERGs in response to single brief flashes of light have clearly detectable a-waves, which are derived from photoreceptors, and greatly reduced b-waves, which are derived from the second-order inner retinal neurons. ERGs in response to sawtooth flickering light indicate a markedly reduced ON response and a nearly normal OFF response. There is no subjective delay in the perception of suddenly appearing white vs black objects on a gray background. Belongs to the G-protein coupled receptor 3 family. Protein type: Membrane protein, integral; Membrane protein, multi-pass; GPCR, family 3; Receptor, GPCR Chromosomal Location of Human Ortholog: 5q35 Cellular Component: presynaptic membrane; Golgi membrane; endoplasmic reticulum membrane; integral to plasma membrane; dendrite; plasma membrane Molecular Function: G-protein coupled receptor activity; protein binding; protein homodimerization activity; group III metabotropic glutamate receptor activity; glutamate receptor activity Biological Process: synaptic transmission; regulation of synaptic transmission, glutamatergic; retina development in camera-type eye; metabotropic glutamate receptor signaling pathway; detection of light stimulus involved in visual perception; locomotory behavior; metabotropic glutamate receptor, adenylate cyclase inhibiting pathway; detection of visible light Disease: Night Blindness, Congenital Stationary, Type 1b
Research Articles on GRM6	**1.** A positive association was observed between response to methadone and two variants in the genes MYOCD and GRM6.
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