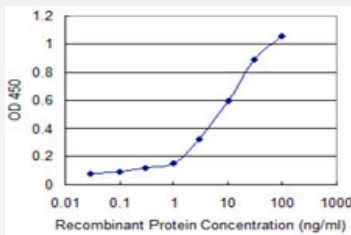


GRM1 monoclonal antibody (M02), clone 1F7

Catalog # H00002911-M02

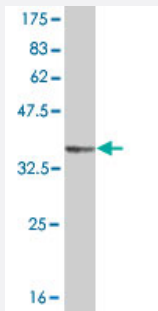
Size 100 ug

Applications



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged GRM1 is 0.1 ng/ml as a capture antibody.



Western Blot detection against Immunogen (36.74 KDa) .

Specification

Product Description

Mouse monoclonal antibody raised against a partial recombinant GRM1.

Immunogen

GRM1 (NP_000829, 387 a.a. ~ 486 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Sequence

NPNFKRICTGNESLEENYVQDSKMGFVINAYAMAHGLQNMHHALCPGHVGLCDAMKPIDGSKLL
DFLIKSSFIGVSGEEVWFDEKGDAPGRYDIMNLQY

Host

Mouse

Reactivity

Human

Interspecies Antigen Sequence	Mouse (95)
Isotype	IgG2b Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.74 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged GRM1 is 0.1 ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

Gene Info — GRM1

Entrez GeneID	2911
GeneBank Accession#	NM_000838
Protein Accession#	NP_000829
Gene Name	GRM1
Gene Alias	GPRC1A, GRM1A, MGLUR1, MGLUR1A, mGlu1
Gene Description	glutamate receptor, metabotropic 1
Omim ID	604473
Gene Ontology	Hyperlink

Gene Summary

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. The canonical alpha isoform of the metabotropic glutamate receptor 1 gene is a disulfide-linked homodimer whose activity is mediated by a G-protein-coupled phosphatidylinositol-calcium second messenger system. Alternative splicing results in multiple transcript variants encoding distinct isoforms; some of which may have distinct functions. [provided by RefSeq]

Other Designations

OTTHUMP00000017365

Pathway

- [Calcium signaling pathway](#)
- [Gap junction](#)
- [Long-term depression](#)
- [Long-term potentiation](#)
- [Neuroactive ligand-receptor interaction](#)

Disease

- [Cardiovascular Diseases](#)
- [Cognition](#)
- [Diabetes Mellitus](#)
- [Disease Models](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Malignant melanoma](#)
- [Melanoma](#)
- [Schizophrenia](#)

- [Schizophrenic Psychology](#)
- [Tobacco Use Disorder](#)
- [Weight Gain](#)