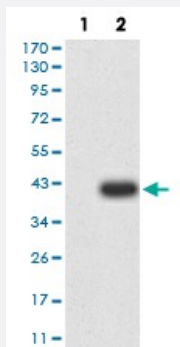


GRM1 monoclonal antibody, clone 5E12D8

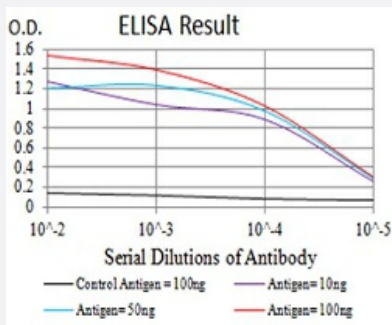
Catalog # MAB17561 Size 100 ug

Applications



Western Blot (Transfected lysate)

Western blot analysis of (1) HEK293 cells, (2) GRM1-hlgFc transfected HEK293 cell lysate.



Enzyme-linked Immunoabsorbent Assay

ELISA analysis of GRM1 monoclonal antibody, clone 5E12D8.

Specification

Product Description	Mouse monoclonal antibody raised against recombinant human GRM1.
Immunogen	Recombinant protein corresponding to amino acid 387-486 of human GRM1 from <i>E. coli</i> .
Host	Mouse
Theoretical MW (kDa)	132.4
Reactivity	Human
Form	Liquid
Isotype	IgG1

Recommend Usage	ELISA (1:10000) Western Blot (1:500-1:2000) Immunocytochemistry Flow Cytometry Immunohistochemistry The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.05% sodium azide).
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Transfected lysate)

Western blot analysis of (1) HEK293 cells, (2) GRM1-hlgGFc transfected HEK293 cell lysate.

- Enzyme-linked Immunoabsorbent Assay

ELISA analysis of GRM1 monoclonal antibody, clone 5E12D8.

Gene Info — GRM1

Entrez GeneID	2911
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](#)