

GRM1
Purified Mouse Monoclonal Antibody
Catalog # AO2613a**Specification**

GRM1 - Product Information

Application	WB, IHC, ICC, E
Primary Accession	Q13255
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse IgG1
Calculated MW	132.4kDa KDa
Immunogen	

Purified recombinant fragment of human GRM1 (AA: extra 387-486) expressed in E. Coli.

Formulation

Purified antibody in PBS with 0.05% sodium azide

GRM1 - Additional Information

Gene ID 2911

Other Names

MGLU1; GPRC1A; MGLUR1; SCAR13; PPP1R85

Dilution

WB~~ 1/500 - 1/2000

IHC~~1:100~500

ICC~~N/A

E~~ 1/10000

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

GRM1 is for research use only and not for use in diagnostic or therapeutic procedures.

GRM1 - Protein Information

Name GRM1

Synonyms GPRC1A, MGLUR1

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. Signaling activates a phosphatidylinositol- calcium second messenger system. May participate in the central action of glutamate in the CNS, such as long-term potentiation in the hippocampus and long-term depression in the cerebellum (PubMed:24603153, PubMed:28886343, PubMed:7476890). May function in the light response in the retina (By similarity). Induces GRID1 and GRID2 cation-channel activation via GNAQ-PLC-PKC pathway in dopaminergic neurons and cerebellar Purkinje cell, respectively (PubMed:24357660, PubMed:27276689).

Cellular Location

Cell membrane; Multi-pass membrane protein. Postsynaptic cell membrane; Multi-pass membrane protein. Cell projection, dendrite {ECO:0000250|UniProtKB:P97772}. Note=Located in dendrioles, small dendrites that makes up a brush structure found as the terminal specialization of a dendrite of a unipolar brush cell {ECO:0000250|UniProtKB:P97772}

Tissue Location

Detected in brain..

GRM1 - 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](#)

GRM1 - Images

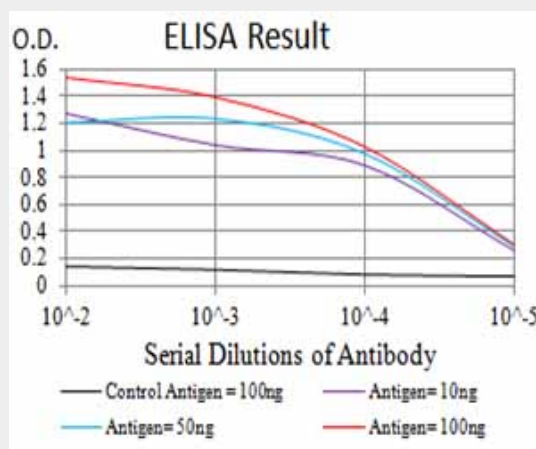


Figure 1:Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

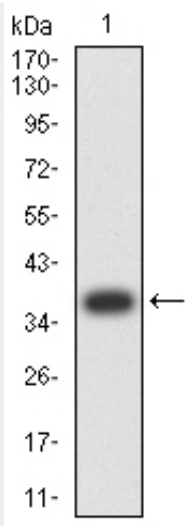


Figure 2: Western blot analysis using GRM1 mAb against human GRM1 (AA: 387-486) recombinant protein. (Expected MW is 37.1 kDa)

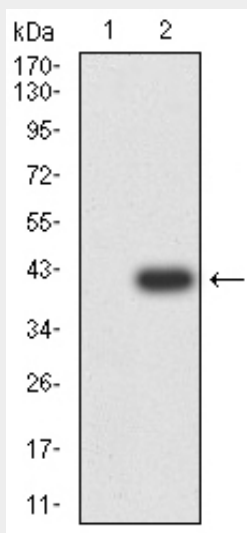


Figure 3: Western blot analysis using GRM1 mAb against HEK293 (1) and GRM1 (AA: 387-486)-hlgGfc transfected HEK293 (2) cell lysate.

GRM1 - References

1. Breast Cancer Res Treat. 2015 May;151(1):57-73.
2. PLoS One. 2013 Jul 26;8(7):e69851.