

GRM7
Purified Mouse Monoclonal Antibody
Catalog # AO2569a**Specification**

GRM7 - Product Information

Application	WB, IHC, ICC, E
Primary Accession	Q14831
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse IgG1
Calculated MW	102.3kDa KDa

Immunogen

Purified recombinant fragment of human GRM7 (AA: 454-590) expressed in E. Coli.

Formulation

Purified antibody in PBS with 0.05% sodium azide

GRM7 - Additional Information

Gene ID 2917

Other Names

GLUR7; MGLU7; GPRC1G; MGLUR7; PPP1R87

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

GRM7 is for research use only and not for use in diagnostic or therapeutic procedures.

GRM7 - Protein Information

Name GRM7

Synonyms GPRC1G, MGLUR7

Function

G-protein coupled receptor activated by glutamate that regulates axon outgrowth through the

MAPK-cAMP-PKA signaling pathway during neuronal development (PubMed:33500274). Ligand binding causes a conformation change that triggers signaling via guanine nucleotide- binding proteins (G proteins) and modulates the activity of downstream effectors, such as adenylate cyclase that it inhibits (PubMed:9473604).

Cellular Location

Cell membrane; Multi-pass membrane protein

Tissue Location

Expressed in many areas of the brain, especially in the cerebral cortex, hippocampus, and cerebellum. Expression of GRM7 isoforms in non-neuronal tissues appears to be restricted to isoform 3 and isoform 4.

GRM7 - 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](#)

GRM7 - Images

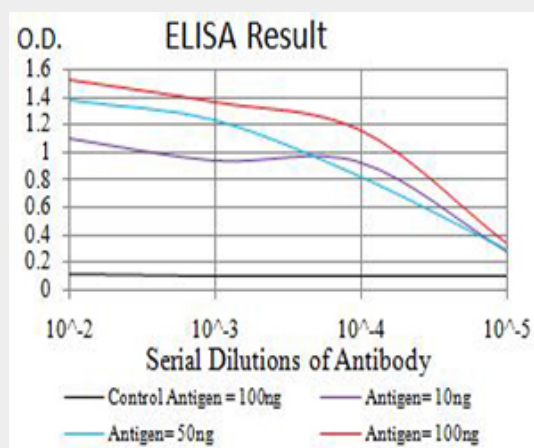


Figure 1:Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

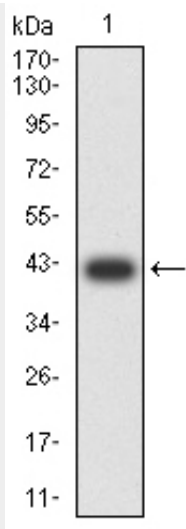


Figure 2: Western blot analysis using GRM7 mAb against human GRM7 (AA: 454-590) recombinant protein. (Expected MW is 41.7 kDa)

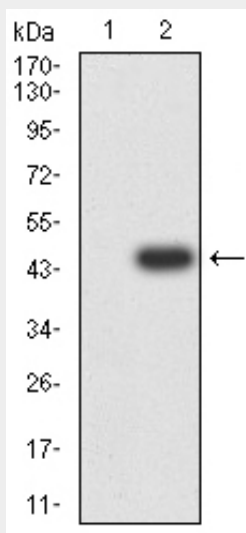


Figure 3: Western blot analysis using GRM7 mAb against HEK293 (1) and GRM7 (AA: 454-590)-hlgGfC transfected HEK293 (2) cell lysate.

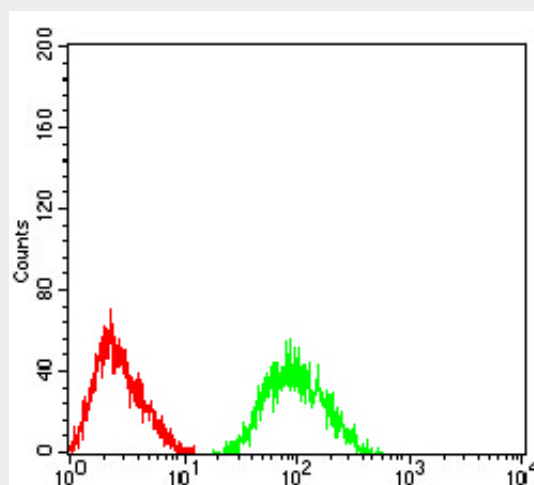


Figure 4: Flow cytometric analysis of SH-SY5Y cells using GRM7 mouse mAb (green) and negative

control (red).

GRM7 - References

1. Psychiatr Genet. 2014 Dec;24(6):281-2. 2. Life Sci. 2013 Feb 7;92(2):149-53.