

GRM3
Purified Mouse Monoclonal Antibody
Catalog # AO2585a**Specification**

GRM3 - Product Information

Application	WB, IHC, ICC, E
Primary Accession	Q14832
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse IgG2a
Calculated MW	99kDa KDa

Immunogen

Purified recombinant fragment of human GRM3 (AA: extra 433-576) expressed in E. Coli.

Formulation

Purified antibody in PBS with 0.05% sodium azide

GRM3 - Additional Information

Gene ID 2913

Other Names

GLUR3; mGlu3; GPRC1C; MGLUR3

Dilution

WB~~ 1/500 - 1/2000

IHC~~ 1/200 - 1/1000

ICC~~ 1/200 - 1/1000

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

GRM3 is for research use only and not for use in diagnostic or therapeutic procedures.

GRM3 - Protein Information

Name GRM3

Synonyms GPRC1C, MGLUR3

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 inhibits adenylate cyclase activity.

Cellular Location

Cell membrane; Multi-pass membrane protein

Tissue Location

Detected in brain cortex, thalamus, subthalamic nucleus, substantia nigra, hypothalamus, hippocampus, corpus callosum, caudate nucleus and amygdala.

GRM3 - 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](#)

GRM3 - Images

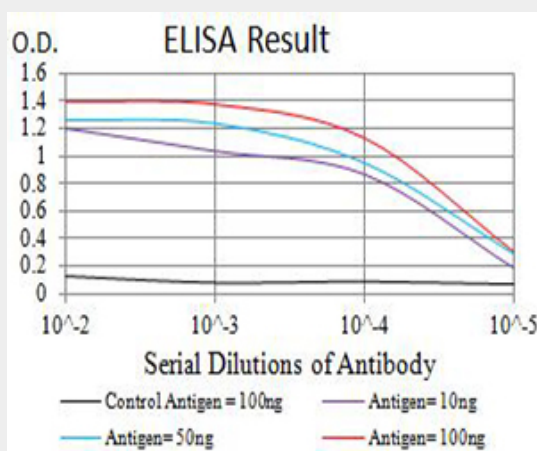


Figure 1: Black line: Control Antigen (100 ng); Purple line: Antigen (10 ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng)

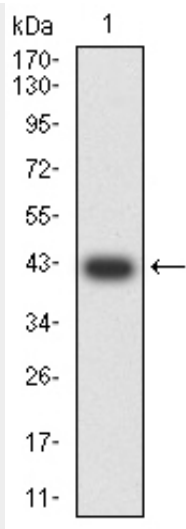


Figure 2: Western blot analysis using GRM3 mAb against human GRM3 (AA: extra 433-576) recombinant protein. (Expected MW is 42.4 kDa)

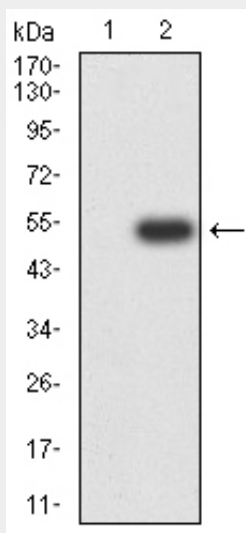


Figure 3: Western blot analysis using GRM3 mAb against HEK293 (1) and GRM3 (AA: extra 433-576)-hlgGfC transfected HEK293 (2) cell lysate.

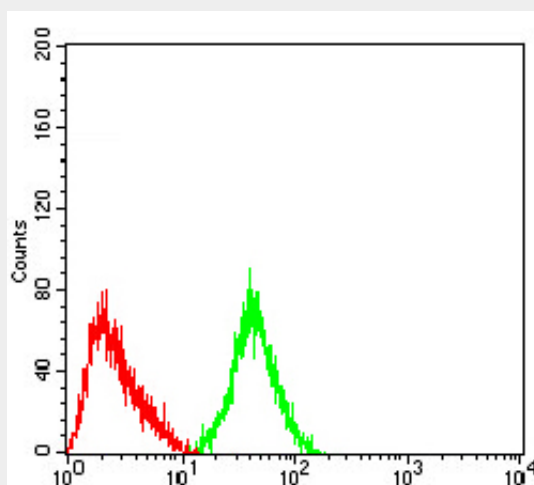


Figure 5: Flow cytometric analysis of SH-SY5Y cells using GRM3 mouse mAb (green) and negative

control (red).

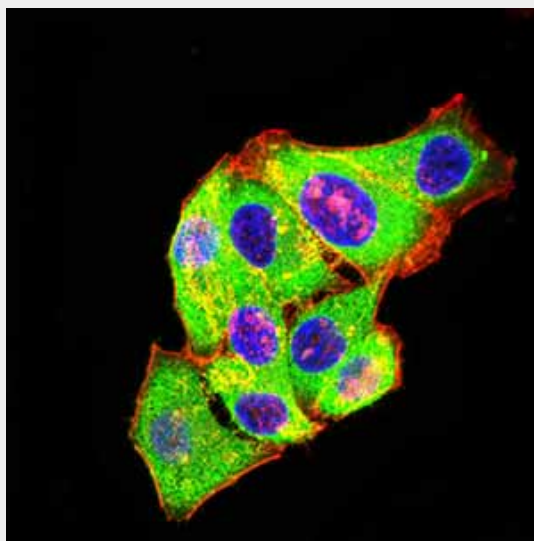


Figure 4:Immunofluorescence analysis of HeLa cells using GRM3 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin. Secondary antibody from Fisher (Cat#: 35503)

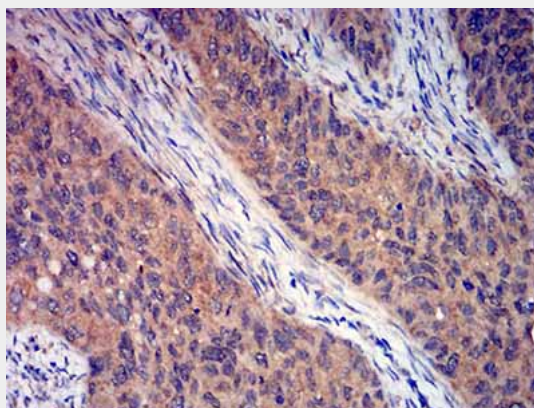


Figure 6:Immunohistochemical analysis of paraffin-embedded cervical cancer tissues using GRM3 mouse mAb with DAB staining.

GRM3 - References

- 1.Prog Neuropsychopharmacol Biol Psychiatry. 2015 Oct 1;62:14-21.
- 2.Cell Mol Biol (Noisy-le-grand). 2014 Sep 6;60(2):42-9.