

GRM5
Purified Mouse Monoclonal Antibody
Catalog # AO2588a**Specification**

GRM5 - Product Information

Application	WB, IHC, ICC, E
Primary Accession	P41594
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse IgG1
Calculated MW	132.5kDa KDa

Immunogen

Purified recombinant fragment of human GRM5 (AA: extra 458-580) expressed in E. Coli.

Formulation

Purified antibody in PBS with 0.05% sodium azide

GRM5 - Additional Information

Gene ID 2915

Other Names

mGlu5; GPRC1E; MGLUR5; PPP1R86

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

GRM5 is for research use only and not for use in diagnostic or therapeutic procedures.

GRM5 - Protein Information

Name GRM5

Synonyms GPRC1E, MGLUR5

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 and generates a calcium-activated chloride current. Plays an important role in the regulation of synaptic plasticity and the modulation of the neural network activity.

Cellular Location

Cell membrane; Multi-pass membrane protein

GRM5 - 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](#)

GRM5 - Images

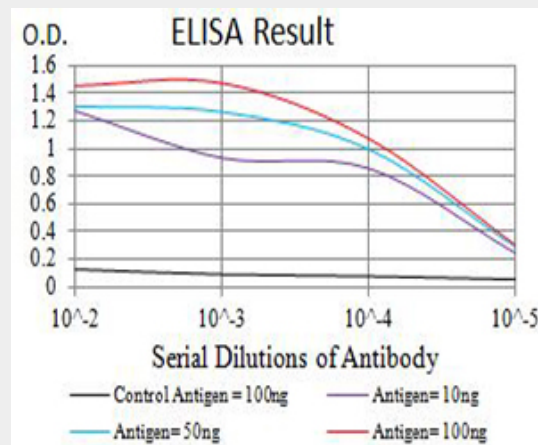


Figure 1: Black line: Control Antigen (100 ng); Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng)

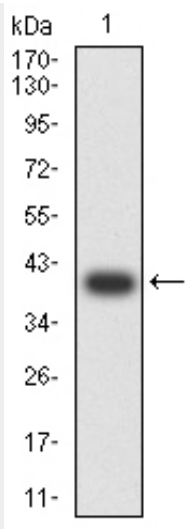


Figure 2: Western blot analysis using GRM5 mAb against human GRM5 (AA: extra 458-580) recombinant protein. (Expected MW is 40.1 kDa)

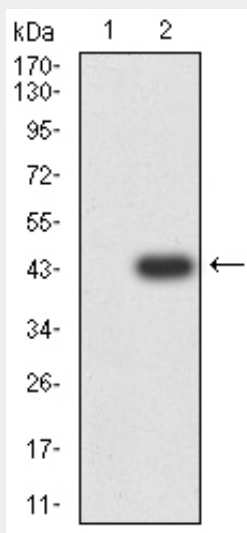


Figure 3: Western blot analysis using GRM5 mAb against HEK293 (1) and GRM5 (AA: extra 458-580)-hlgGfC transfected HEK293 (2) cell lysate.

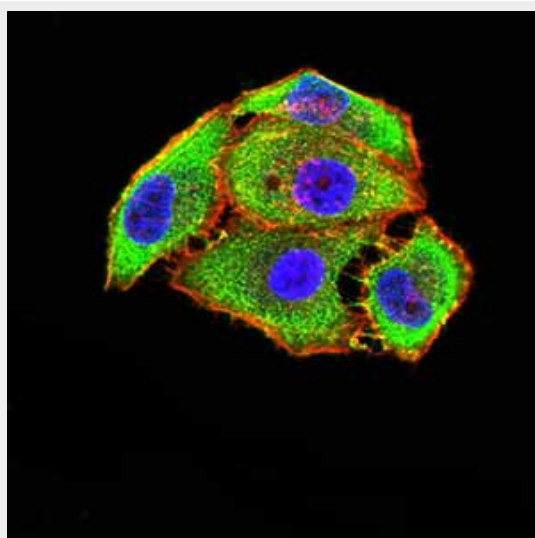


Figure 4:Immunofluorescence analysis of Hela cells using GRM5 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin. Secondary antibody from Fisher (Cat#: 35503)

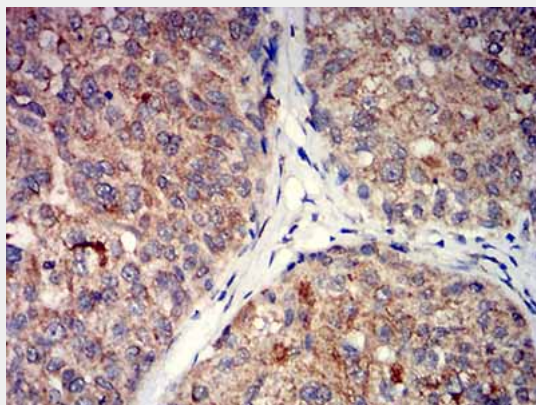
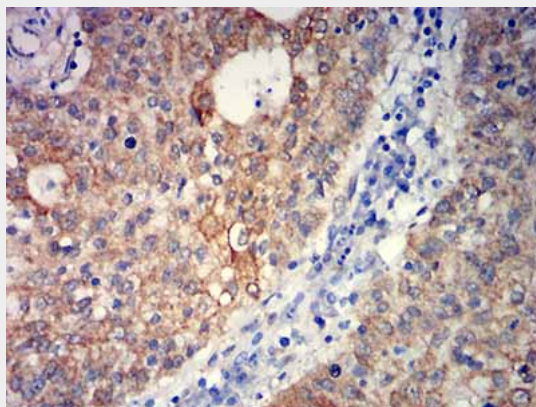


Figure 5:Immunohistochemical analysis of paraffin-embedded bladder cancer tissues using GRM5 mouse mAb with DAB staining.



1/200 - 1/1000

GRM5 - References

1.Curr Alzheimer Res. 2014;11(7):694-705.2.Int J Neuropsychopharmacol. 2014 Dec;17(12):1915-22.