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GRM2

Purified Mouse Monoclonal Antibody
Catalog # AO2668a

Product Information

Application	WB, IHC, ICC, E
Primary Accession	Q14416
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	4A10B9
Isotype	Mouse IgG1
Calculated MW	95568
Immunogen	Purified recombinant fragment of human GRM2 (AA: extra 414-558) expressed in E. Coli.
Formulation	Purified antibody in PBS with 0.05% sodium azide

Additional Information

Gene ID	2912
Other Names	GLUR2; mGlu2; GPRC1B; MGLUR2
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	GRM2 is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	GRM2 (HGNC:4594)
Synonyms	GPRC1B, MGLUR2
Function	Dimeric G protein-coupled receptor which is activated by the excitatory neurotransmitter L-glutamate (PubMed:37286794). Plays critical roles in modulating synaptic transmission and neuronal excitability. Upon activation by glutamate, inhibits presynaptic calcium channels, reducing further glutamate release and dampening excitatory signaling (By similarity). Mechanistically, ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates

	the activity of down-stream effectors, such as adenylate cyclase. May mediate suppression of neurotransmission or may be involved in synaptogenesis or synaptic stabilization.
Cellular Location	Cell membrane; Multi-pass membrane protein. Synapse. Cell projection, dendrite
Tissue Location	Detected in brain cortex (at protein level). Widely expressed in different regions of the adult brain as well as in fetal brain.

References

1.Br J Pharmacol. 2015 May;172(9):2383-96.2.Brain Res. 2009 Jan 16;1249:244-50.

Images

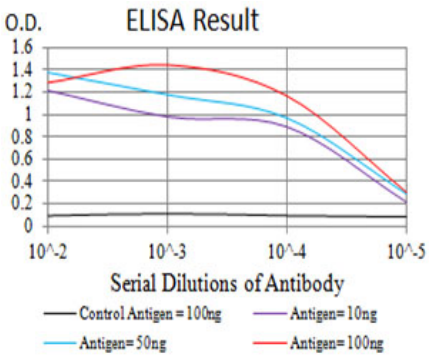


Figure 1:Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

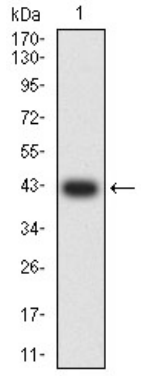


Figure 2:Western blot analysis using GRM2 mAb against human GRM2 (AA: extra 414-558) recombinant protein. (Expected MW is 42.4 kDa)

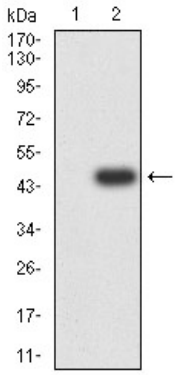
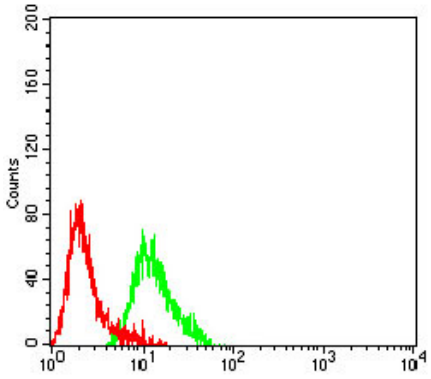


Figure 3:Western blot analysis using GRM2 mAb against HEK293 (1) and GRM2 (AA: extra 414-558)-hIgGFc transfected HEK293 (2) cell lysate.

Figure 4:Flow cytometric analysis of SK-N-SH cells using GRM2 mouse mAb (green) and negative control (red).



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.