

Anti-mGluR2 GRM2 Rabbit Monoclonal Antibody

Catalog # ABO13859

Product Information

Application	WB, IHC, IF, ICC
Primary Accession	Q14416
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid
Description	Anti-mGluR2 GRM2 Rabbit Monoclonal Antibody . Tested in WB, IHC, ICC/IF applications. This antibody reacts with Human, Mouse, Rat.

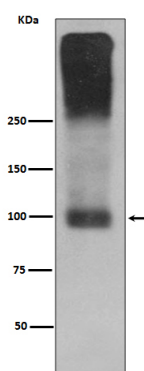
Additional Information

Gene ID	2912
Other Names	Metabotropic glutamate receptor 2, mGluR2, GRM2 (HGNC:4594), GPRC1B, MGLUR2
Calculated MW	95568
Application Details	WB 1:5000-1:10000 IHC 1:50-1:200 ICC/IF 1:50-1:200
Subcellular Localization	Cell membrane; Multi-pass membrane protein. Cell junction, synapse. Cell projection, dendrite.
Tissue Specificity	Detected in brain cortex (at protein level). Widely expressed in different regions of the adult brain as well as in fetal brain..
Source	Eukaryota
Contents	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
Clone Names	Clone: IEI-7
Immunogen	A synthesized peptide derived from human mGluR2
Purification	Affinity-chromatography
Storage	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

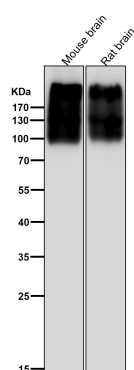
Protein Information

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.

Images



Western blot analysis of mGluR2 expression in Mouse brain lysate.



All lanes use the Antibody at 1:1W dilution for 1 hour at room temperature.

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