

mGluR2 Antibody

Rabbit mAb

Catalog # AP90996

Product Information

Application	WB, IHC, IF, ICC, IHF
Primary Accession	Q14416
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Other Names	GRM2; Glutamate receptor homolog; GPRC1B; MGlu2; Metabotropic; GLUR2; MGLUR2;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	95568

Additional Information

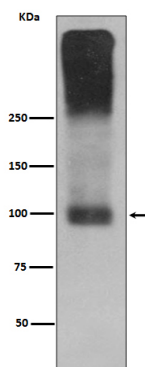
Dilution	WB 1:5000~1:10000 IHC 1:50~1:200 ICC/IF 1:50~1:200
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human mGluR2
Description	G-protein coupled receptor for glutamate. Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of down-stream effectors, such as adenylate cyclase. Signaling inhibits adenylate cyclase activity. May mediate suppression of neurotransmission or may be involved in synaptogenesis or synaptic stabilization.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

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.

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