10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-mGLUR2 Antibody

Catalog # AP53676

Product Information

Application	WB, IHC
Primary Accession	Q14416
Other Accession	Q14832
Reactivity	Human, Mouse, Rat, Mk
Host	Rabbit
Clonality	Polyclonal
Calculated MW	95568

Additional Information

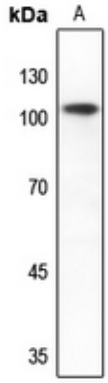
Gene ID	2912
Other Names	GRM2; GPRC1B; MGLUR2; Metabotropic glutamate receptor 2; mGluR2; GRM3; GPRC1C; MGLUR3; Metabotropic glutamate receptor 3; mGluR3
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human mGLUR2. The exact sequence is proprietary.
Dilution	WB~~1/500 - 1/1000 IHC~~1:100~500
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

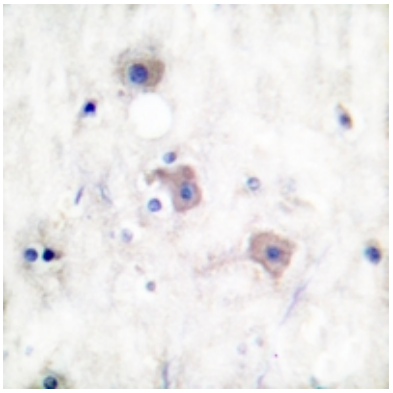
Name	GRM2 (HGNC:4594)
Synonyms	GPRC1B, MGLUR2
Function	Dimeric G protein-coupled receptor which is activated by the excitatory neurotransmitter L-glutamate (PubMed:37286794). Plays critical roles in modulating synaptic transmission and neuronal excitability. Upon activation by glutamate, inhibits presynaptic 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 rat brain (A) whole cell lysates. (Predicted band size: 95; 98 kD; Observed band size: 110 kD)



Immunohistochemical analysis of mGLUR2 staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

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