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mGLUR7 Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51248

Product Information

Application	WB
Primary Accession	Q14831
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	102251

Additional Information

Gene ID	2917
Other Names	Metabotropic glutamate receptor 7, mGluR7, GRM7, GPRC1G, MGLUR7
Dilution	WB~~1:1000
Format	0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name	GRM7
Synonyms	GPRC1G, MGLUR7
Function	G-protein coupled receptor activated by glutamate that regulates axon outgrowth through the MAPK-cAMP-PKA signaling pathway during neuronal development (PubMed:33500274). Ligand binding causes a conformation change that triggers signaling via guanine nucleotide- binding proteins (G proteins) and modulates the activity of downstream effectors, such as adenylate cyclase that it inhibits (PubMed:9473604).
Cellular Location	Cell membrane; Multi-pass membrane protein
Tissue Location	Expressed in many areas of the brain, especially in the cerebral cortex, hippocampus, and cerebellum. Expression of GRM7 isoforms in non-neuronal tissues appears to be restricted to isoform 3 and isoform 4.

Background

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.

References

Makoff A.,et al.Brain Res. Mol. Brain Res. 40:165-170(1996).
Flor P.J.,et al.Neuropharmacology 36:153-159(1997).
Wu S.,et al.Brain Res. Mol. Brain Res. 53:88-97(1998).
Schulz H.L.,et al.Neurosci. Lett. 326:37-40(2002).
Bolonna A.A.,et al.Schizophr. Res. 47:99-103(2001).

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