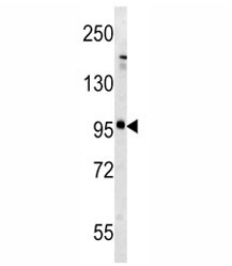
mGLUR5 Antibody / GRM5 (F49603)

Catalog No.	Formulation	Size
F49603-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F49603-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Purified
UniProt	P41594
Applications	Western blot: 1:1000
Limitations	This mGLUR5 antibody is available for research use only.



Western blot analysis of mGLUR5 antibody and mouse brain tissue lysate

Description

L-glutamate is the major excitatory neurotransmitter in the central nervous system and activates both ionotropic and metabotropic glutamate receptors. Glutamatergic neurotransmission is involved in most aspects of normal brain function and can be perturbed in many neuropathologic conditions. The metabotropic glutamate receptors are a family of G protein-coupled receptors, that have been divided into 3 groups on the basis of sequence homology, putative signal transduction mechanisms, and pharmacologic properties. Group I includes GRM1 and GRM5 (also known as GPRC1E) and these receptors have been shown to activate phospholipase C. Group II includes GRM2 and GRM3 while Group III includes GRM4, GRM6, GRM7 and GRM8. Group II and III receptors are linked to the inhibition of the cyclic AMP

cascade but differ in their agonist selectivities. The activity of GRM5 is mediated by a G-protein that activates a phosphatidylinositol-calcium second messenger system and generates a calcium-activated chloride current.

Application Notes

Titration of the mGLUR5 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 1020-1050 from the human protein was used as the immunogen for this mGLUR5 antibody.

Storage

Aliquot the mGLUR5 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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