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Recombinant Anti-mGLUR5 Rabbit mAb

Catalog # AP94937

Product Information

Application	WB, IHC, FC, IF/IC
Primary Accession	P41594
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Monoclonal
Calculated MW	132469

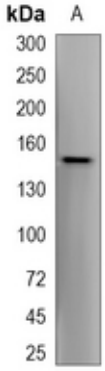
Additional Information

Gene ID	2915
Other Names	GPRC1E; MGLUR5; Metabotropic glutamate receptor 5; mGluR5
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within human mGLUR5 protein. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 FC~~1:10~50 IF/IC~~N/A
Format	Liquid in PBS, pH 7.3, 50% glycerol, 0.05% BSA, and 0.05% Proclin300.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

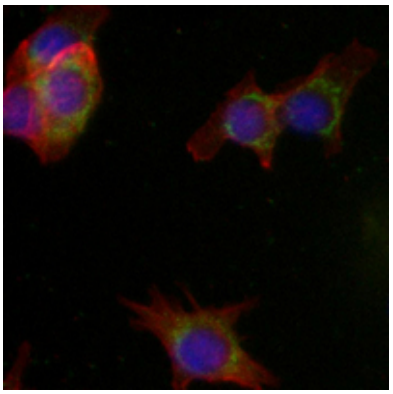
Protein Information

Name	GRM5
Synonyms	GPRC1E, MGLUR5
Function	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. Signaling activates a phosphatidylinositol- calcium second messenger system and generates a calcium-activated chloride current. Plays an important role in the regulation of synaptic plasticity and the modulation of the neural network activity.
Cellular Location	Cell membrane; Multi-pass membrane protein

Images



Western blot analysis of mGLUR5 expression in mouse brain (A) whole cell lysates. (Predicted band size: 132 kD; Observed band size: 150 kD)



Immunofluorescent analysis of mGLUR5 staining in H460 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with an AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).