Metabotropic glutamate receptor 5 Rabbit mAb

Catalog No: #48873

Package Size: #48873-1 50ul #48873-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	Metabotropic glutamate receptor 5 Rabbit mAb
Clone No.	ST51-00
Purification	Affinity-chromatography
Applications	WB;IHC;ICC/IF;FC
Species Reactivity	Hu, Ms, Rt
Immunogen Description	A synthesized peptide derived from human mGluR5
Other Names	Glutamate receptor metabotropic 5 antibody GPRC1E antibody Grm5 antibody GRM5_HUMAN antibody Metabotropic glutamate receptor 5 antibody Metabotropic glutamate receptor 5 variant F antibody Metabotropic glutamate receptor 5 variant G antibody Metabotropic glutamate receptor 5 variant H antibody mGlu5 antibody mGluR5 antibody PPP1R86 antibody Protein phosphatase 1 regulatory subunit 86 antibody
Accession No.	Swiss-Prot#:P41594
Uniprot	P41594
GeneID	2915;
Calculated MW	132 kDa
Formulation	Rabbit IgG in 10mM phosphate buffered saline , pH 7.4, 150mM sodium chloride, 0.05% BSA, 0.02% sodium azide and 50% glycerol.
Storage	Store at +4°C for short term. Store at -20°C for long term. Avoid freeze/thaw cycle.

Application Details

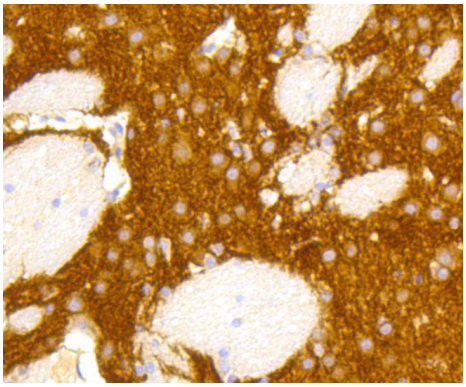
WB 1:1000-1:2000

IHC 1:100-1:200

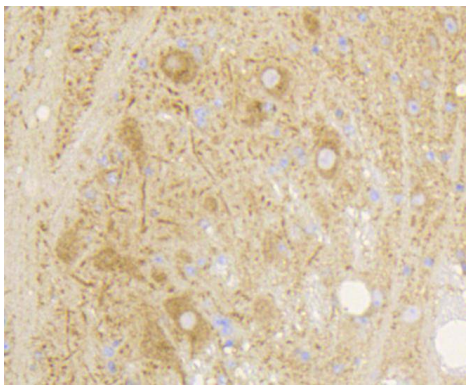
ICC/IF 1:50-1:200

FC 1:20-1:100

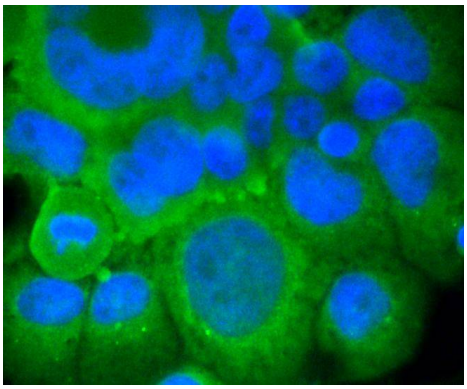
Images



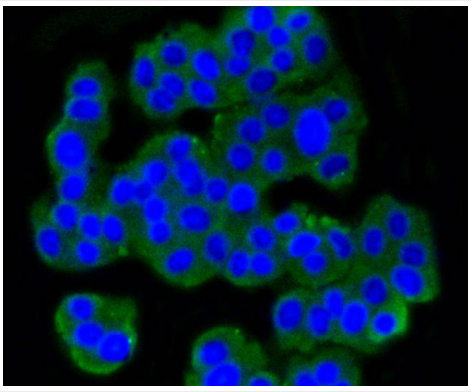
Immunohistochemical analysis of paraffin-embedded rat brain tissue using anti-GRM5 antibody. Counter stained with hematoxylin.



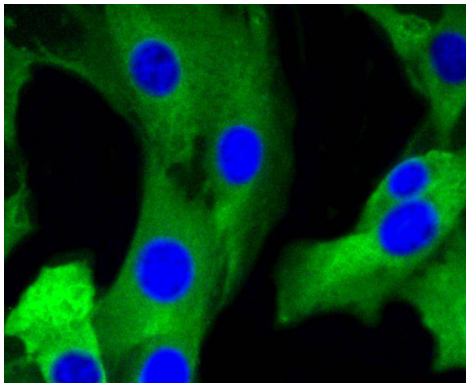
Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-GRM5 antibody. Counter stained with hematoxylin.



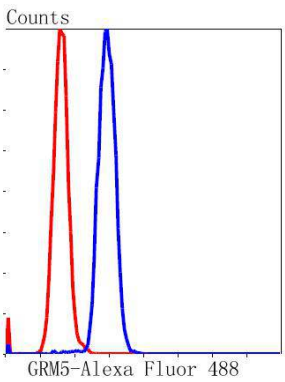
ICC staining GRM5 in JAR cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining GRM5 in PC12 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining GRM5 in SHG-44 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of SH-SY-5Y cells with GRM5 antibody at 1/50 dilution (blue) compared with an unlabelled control (cells without incubation with primary antibody; red). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.

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. 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.

Note: This product is for in vitro research use only