



mGluR2 (PT1927R) Rabbit mAb

Catalog No	YP-rAb-18547
Isotype	IgG
Reactivity	Human,Mouse,Rat
Applications	WB, IHC, IF, ELISA
Gene Name	GRM2
Immunogen	The specific immunogen used to produce this antibody is proprietary information.
Specificity	Endogenous
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source	Monoclonal, Rabbit,IgG
Purification	Recombinant Antibody expressed in animal component-free (ACF) media, purified via Protein A affinity chromatography.
Dilution	IHC 1:200-1:1000; WB 1:2000-1:10000; IF 1:200-1:1000; ELISA 1:5000-1:20000 Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0 (Cat#YS0004)
Concentration	0.5 mg/ml
Purity	≥90%
Storage Stability	-15°C to -25°C/1 year(Do not lower than -25°C)
Synonyms	GRM2;Metabotropic glutamate receptor 2;GRM2 ; GPRC1B ; MGLUR2 ; Metabotropic glutamate receptor 2 ; mGluR2
Observed Band	>200kD
Calculated Molecular Weight	99kD
Cell Pathway	Cell membrane; Multi-pass membrane protein. Cell junction , synapse . Cell projection , dendrite .
Tissue Specificity	Detected in brain cortex (at protein level) . Widely expressed in different regions of the adult brain as well as in fetal brain.
Function	Function:Receptor for glutamate. The activity of this receptor is mediated by a G-protein that inhibits adenylate cyclase activity. May mediate suppression of neurotransmission or may be involved in synaptogenesis or synaptic stabilization. ,similarity:Belongs to the G-protein coupled receptor 3 family. ,subunit:Interacts with GRASP. ,tissue specificity:Widely expressed in different regions of the adult brain as well as in fetal brain. ,
Background	glutamate metabotropic receptor 2 (GRM2) Homo sapiens 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 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. Two transcript variants encoding different isoforms have been found for this gene

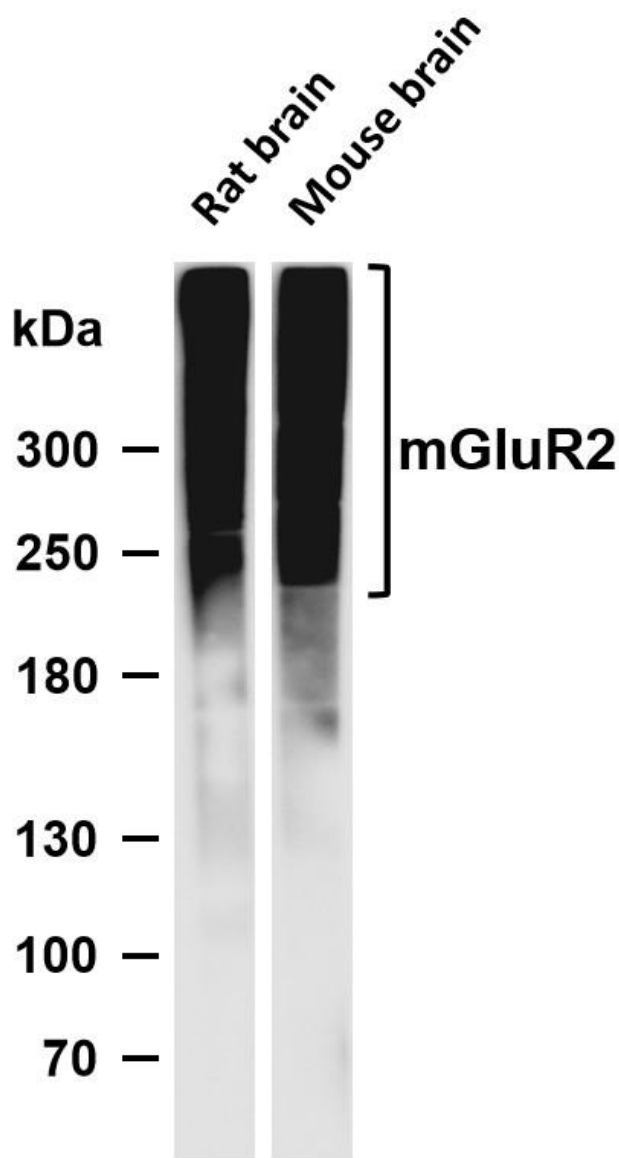
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



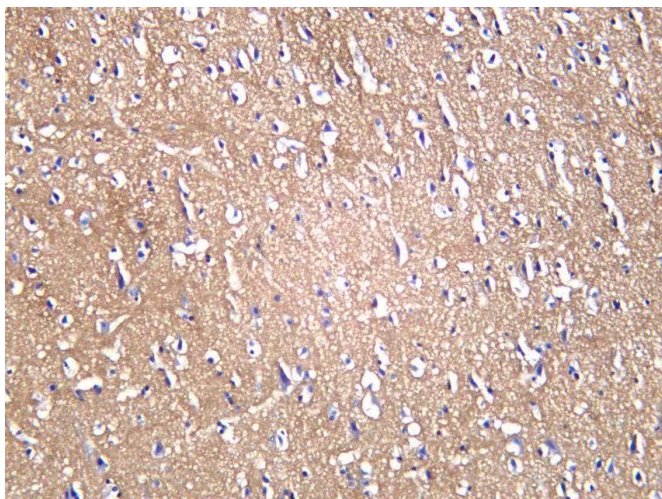
Various whole cell lysates were separated by 4-8% SDS-PAGE, and the membrane was blotted with anti-mGluR2 (PT1927R) antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody.

Lane 1: Rat brain

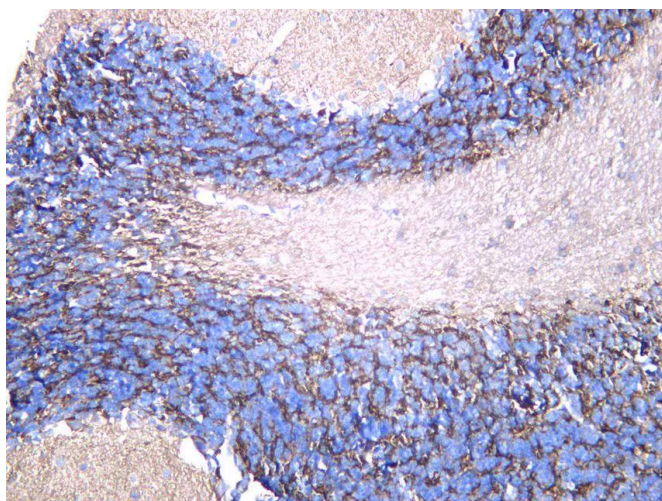
Lane 2: Mouse brain

Predicted band size: 99kDa

Observed band size: >200kDa



Human brain was stained with anti-mGluR2 (PT1927R)
Rabbit antibody



Mouse brain was stained with anti-mGluR2 (PT1927R)
Rabbit antibody