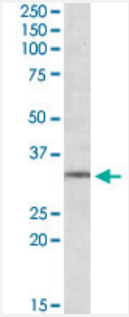
GRM2 polyclonal antibody

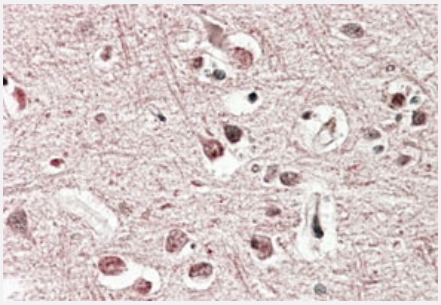
Catalog # PAB19004 Size 100 ug

Applications



Western Blot (Tissue lysate)

GRM2 polyclonal antibody (Cat # PAB19004, 1 ug/mL) staining of human hippocampus lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

GRM2 polyclonal antibody (Cat # PAB19004) (3.8 ug/mL) staining of paraffin embedded human cerebral cortex. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

Specification

Product Description	Goat polyclonal antibody raised against synthetic peptide of GRM2.
Immunogen	A synthetic peptide corresponding to internal region of human GRM2.
Sequence	C-KETAPERREV
Host	Goat
Theoretical MW (kDa)	30
Reactivity	Human
Specificity	This antibody is expected to recognize both isoforms (NP_000830.2; NP_001123535.1).

Form	Liquid
Purification	Antigen affinity purification
Concentration	0.5 mg/mL
Recommend Usage	ELISA (1:16000) Western Blot (1-3 ug/mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (3-5 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In 0.5 mg/mL Tris saline, pH 7.3 (0.02% sodium azide, 0.5% BSA)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

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- Enzyme-linked Immunoabsorbent Assay

Gene Info — GRM2

Entrez GeneID	2912
Protein Accession#	NP_000830.2;NP_001123535.1
Gene Name	GRM2
Gene Alias	GLUR2, GPRC1B, MGLUR2, mGlu2
Gene Description	glutamate receptor, metabotropic 2
Omim ID	604099

Gene Ontology	Hyperlink
Gene Summary	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. [provided by RefSeq
Other Designations	glutamate metabotropic receptor 2|glutamate receptor homolog

Pathway

- Neuroactive ligand-receptor interaction

Disease

- Amphetamine-Related Disorders
- Cognition
- Genetic Predisposition to Disease
- Mental Disorders
- Mood Disorders
- Psychoses
- Schizophrenia
- Schizophrenic Psychology
- Weight Gain