

Rabbit anti-Human Metabotropic Glutamate Receptor 1 Polyclonal Antibody | anti-GRM1 antibody

Metabotropic Glutamate Receptor 1 Antibody (C-term)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA290595	Rabbit	Human	Western Blot, Immunohistochemistry

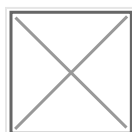
PRODUCT SYNONYMS

Metabotropic Glutamate Receptor 1; Polyclonal Antibody; Metabotropic Glutamate Receptor 1 Antibody (C-term); Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab); Metabotropic glutamate receptor 1; mGluR1; GRM1; GPRC1A; MGLUR1; anti-GRM1 antibody

PRODUCT SPECIFICATIONS

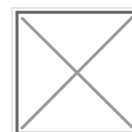
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Ig
Specificity	This Metabotropic Glutamate Receptor 1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1096-1126 amino acids from the C-terminal region of human Metabotropic Glutamate Receptor 1.
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Sequence Length	1194
Applicable Applications for anti-GRM1 antibody	WB (Western Blot), IHC (Immunohistochemistry)
Antigen Region	1096-1126
Antigen Source	Human
Antigen Type	Synthetic Peptide
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



WB (Western Blot)

GPRC1A Antibody(Y1111) western blot analysis in CEM,NCI-H292,NCI-H460 cell line lysates (35ug/lane).This demonstrates the GPRC1A antibody detected the GPRC1A protein (arrow).



IHC (Immunohistochemistry)

Metabotropic Glutamate Receptor 1 (GPRC1A) Antibody (C-term) immunohistochemistry analysis in formalin fixed and paraffin embedded human stomach tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of Metabotropic Glutamate Receptor 1 (GPRC1A) Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



WB (Western Blot)

Anti-GPRC1A Antibody (Y1111) at 1:1000 dilution + human brain lysateLysates/proteins at 20 ug per lane.SecondaryGoat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution.Predicted band size : 132 kDaBlocking/Dilution buffer: 5% NFDm/TBST.

ADDITIONAL INFORMATION

Related Product Information for anti-GRM1 antibody	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 (also known as GPRC1A) 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. The activity of GRM1 is mediated by a G-protein that activates a phosphatidylinositol-calcium second messenger system. This protein may participate in the central action of glutamate in the CNS, such as long-term potentiation in the hippocampus and long-term depression in the cerebellum
Product Categories/Family for anti-GRM1 antibody	Neuroscience; GPCR Antibodies
References	Hlavackova, V., et al., EMBO J. 24(3):499-509 (2005). Kammermeier, P.J., et al., J. Pharmacol. Exp. Ther. 312(2):502-508 (2005). Burgueno, J., et al., Exp. Cell Res. 300(1):23-34 (2004). Mundell, S.J., et al., Mol. Pharmacol. 65(6):1507-1516 (2004). Anneser, J.M., et al., J. Neuropathol. Exp. Neurol. 63(8):831-840 (2004).

NCBI AND UNIPROT INFORMATION

NCBI GI #	493798972
NCBI GeneID	2911
NCBI Accession #	NP_001264993.1 ; NP_001264994.1 ; NP_001264995.1 ; NP_001264996.1
NCBI GenBank Nucleotide #	NM_001278064.1
UniProt Accession #	Q13255 ; Q13256 ; Q14757 ; Q14758 ; Q5VTF7 ; Q5VTF8 ; Q9NU10 ; Q9UGS9 ; Q9UGT0 ; B9EG79 ; F8W805
Molecular Weight	132357
NCBI Official Full Name	metabotropic glutamate receptor 1 isoform alpha
NCBI Official Synonym Full Names	glutamate receptor, metabotropic 1
NCBI Official Symbol	GRM1
NCBI Official Synonym Symbols	MGLU1; GPRC1A; MGLUR1; SCAR13; PPP1R85
NCBI Protein Information	metabotropic glutamate receptor 1
UniProt Protein Name	Metabotropic glutamate receptor 1
UniProt Gene Name	GRM1
UniProt Synonym Gene Names	GPRC1A; MGLUR1; mGluR1
UniProt Entry Name	GRM1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

