

Rabbit Metabotropic Glutamate Receptor 7 Polyclonal Antibody | anti-GRM7 antibody

Metabotropic Glutamate Receptor 7 (GPRC1G) Antibody (C-term)

CATALOG # AAA290669	HOST Rabbit	REACTIVITY Human; Predicted Reactivity: Mouse, Rat	APPLICATIONS ELISA, Immunohistochemistry, Western Blot
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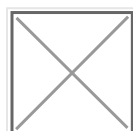
PRODUCT SYNONYMS

Metabotropic Glutamate Receptor 7; Polyclonal Antibody; Metabotropic Glutamate Receptor 7 (GPRC1G) Antibody (C-term); Metabotropic glutamate receptor 7; mGluR7; GRM7; GPRC1G; MGLUR7; anti-GRM7 antibody

PRODUCT SPECIFICATIONS

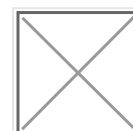
Host	Rabbit
Reactivity	Human; Predicted Reactivity: Mouse, Rat
Clonality	Polyclonal
Isotype	Ig
Specificity	This Metabotropic Glutamate Receptor 7 (GPRC1G) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 857-887 amino acids from the C-terminal region of human Metabotropic Glutamate Receptor 7 (GPRC1G).
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Sequence Length	922
Applicable Applications for anti-GRM7 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Subtitle	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Cellular Location	Cell membrane; Multi-pass membrane protein.
Tissue Location	Expressed in many areas of the brain, especially in the cerebral cortex, hippocampus, and cerebellum Expression of GRM7 isoforms in non-neuronal tissues appears to be restricted to isoform 3 and isoform 4.
Antigen Region	857-887 aa
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



IHC (Immunohistochemistry)

Metabotropic Glutamate Receptor 7 (GPRC1G) Antibody (C-term) immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of Metabotropic Glutamate Receptor 7 (GPRC1G) Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



WB (Western Blot)

Anti-GPRC1G Antibody (C-term) at 1:1000 dilution + SH-SY5Y whole cell lysate Lysates/proteins at 20 ug per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 102 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

ADDITIONAL INFORMATION

Related Product Information for anti-GRM7 antibody	Description: 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. Alternative splice variants of GRM8 have been described but their full-length nature has not been determined. 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, such as adenylate cyclase. Signaling inhibits adenylate cyclase activity.
Product Categories/Family for anti-GRM7 antibody	Primary Antibodies ; Antibody Collections ; Neuroscience ; GPCR Antibodies
References	Schulz, H.L., et al., Neurosci. Lett. 326 (1):37-40 (2002). Flor, P.J., et al., Neuropharmacology 36 (2):153-159 (1997). Makoff, A., et al., Brain Res. Mol. Brain Res. 40 (1):165-170 (1996). Scherer, S.W., et al., Genomics 31 (2):230-233 (1996). Okamoto, N., et al., J. Biol. Chem. 269 (2):1231-1236 (1994).

NCBI AND UNIPROT INFORMATION

NCBI GI #	32528268
NCBI GeneID	2917
NCBI Accession #	NP_870989
NCBI GenBank Nucleotide #	NM_181874.2
UniProt Accession #	Q14831; Q8NFS2; Q8NFS3; Q8NFS4
Molecular Weight	102251 Da
NCBI Official Full Name	metabotropic glutamate receptor 7 isoform b
NCBI Official Synonym Full Names	glutamate metabotropic receptor 7
NCBI Official Symbol	GRM7
NCBI Official Synonym Symbols	GLUR7; MGLU7; GPRC1G; MGLUR7; PPP1R87
NCBI Protein Information	metabotropic glutamate receptor 7
UniProt Protein Name	Metabotropic glutamate receptor 7
UniProt Gene Name	GRM7
UniProt Synonym Gene Names	GPRC1G; MGLUR7; mGluR7
UniProt Entry Name	GRM7_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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/metabotropic-glutamate-receptor-7-antibody-immunohistochemistry-western-blot-elisa/290669>