

Rabbit GRM1 Polyclonal Antibody | anti-GRM1 antibody

GRM1 Antibody

CATALOG # AAA326857	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS ELISA, Immunohistochemistry, Western Blot
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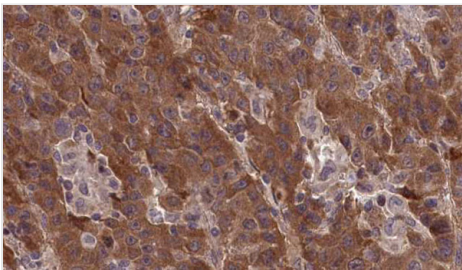
PRODUCT SYNONYMS

GRM1; Polyclonal Antibody; GRM1 Antibody; Glutamate receptor metabotropic 1; glutamate receptor; metabotropic 1; GPRC1A; GRM1-Alpha; GRM1_HUMAN; GRM1A; Metabotropic glutamate receptor 1; mGlu1; mGluR1; MGLUR1-Alpha; MGLUR1A; SCAR13; anti-GRM1 antibody

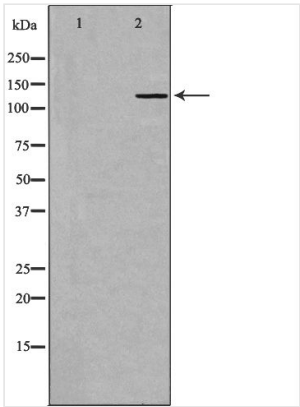
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	GRM1 antibody detects endogenous levels of total GRM1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	1194
Applicable Applications for anti-GRM1 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide of human GRM1
Subcellular Location	Cell Membrane
Tissue Specificity	Detected in brain.
Predicted Cross Reactivity	Pig, Horse, Sheep, Dog
Similarity	Pig (100%), Horse (100%), Sheep (100%), Dog (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
AAA326857 at 1/100 staining Human liver cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of extracts of Hela lysate, using GRM1 antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-GRM1 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. Function: 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. 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. Subunit Structure: Homodimer; disulfide-linked. The PPXXF motif binds HOMER1, HOMER2 and HOMER3. Interacts with SIAH1, RYR1, RYR2, ITPR1, SHANK1, SHANK3 and GRASP (By similarity). Similarity: Belongs to the G-protein coupled receptor 3 family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	493798972
NCBI GeneID	2911
NCBI Accession #	NP_001264993.1
NCBI GenBank Nucleotide #	NM_001278064.1
UniProt Accession #	Q13255; Q13256; Q14757; Q14758; Q5VTF7; Q5VTF8; Q9NU10; Q9UGS9; Q9UGT0; B9EG79; F8W805
Molecular Weight	Observed: 132 kDa Predicted: 133 kDa
NCBI Official Full Name	metabotropic glutamate receptor 1 isoform alpha
NCBI Official Synonym Full Names	glutamate metabotropic receptor 1
NCBI Official Symbol	GRM1
NCBI Official Synonym Symbols	MGLU1; SCA44; 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

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/grm1-antibody-immunohistochemistry-western-blot-elisa/326857>