

Rabbit anti-Mouse, Rat GRM1 Polyclonal Antibody | anti-GRM1 antibody

Anti-GRM1 Antibody, Rabbit Polyclonal

CATALOG # AAA255052	HOST Rabbit	REACTIVITY Mouse, Rat	APPLICATIONS Immunohistochemistry
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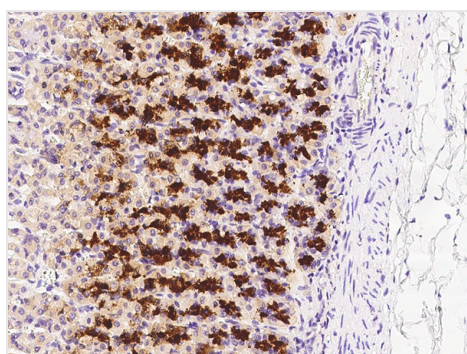
PRODUCT SYNONYMS

GRM1; Polyclonal Antibody; Anti-GRM1 Antibody; Rabbit Polyclonal; GRM1 Antibody; Rabbit PAb; Antigen Affinity Purified; Anti-Gprc1a Antibody; Anti-Mglur1 Antibody; anti-GRM1 antibody

PRODUCT SPECIFICATIONS

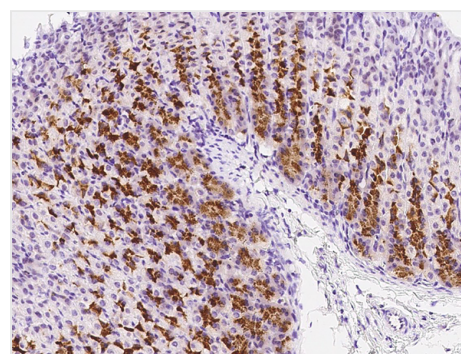
Host	Rabbit
Reactivity	Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Mouse GRM1
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-GRM1 antibody	IHC (Immunohistochemistry)
Immunogen	A synthetic peptide corresponding to the center region of the Mouse GRM1
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with a synthetic peptide corresponding to the center region of the Mouse GRM1, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



IHC (Immunohistochemistry)

Immunochemical staining GRM1 in rat stomach with rabbit polyclonal antibody at 1:1000 dilution, formalin-fixed paraffin embedded sections.



IHC (Immunohistochemistry)

Immunochemical staining GRM1 in mouse stomach with rabbit polyclonal antibody at 1:1000 dilution, formalin-fixed paraffin embedded sections.

ADDITIONAL INFORMATION

Related Product Information for anti-GRM1 antibody	GRM1 gene, which is located on 6q24.3, encodes the metabotropic glutamate receptor type 1 (mGluR1), a transmembrane protein highly expressed in cerebellar Purkinje cells. Pathogenic variants in GRM1 have been reported only three times in humans, causing autosomal-recessive cerebellar ataxia with an early-onset and intellectual disability or dominant forms of cerebellar ataxia with a less severe phenotype in adults. GRM1 cause a recessive form of cerebellar ataxia, SCAR13. A neuronal receptor, GRM1, when ectopically expressed in melanocytes, induces in vitro melanocytic transformation and spontaneous malignant melanoma development in vivo in a transgenic mouse model. GRM1 signaling has been implicated in benign and malignant disorders including prostate cancer (PCa). GRM1 encodes the metabotropic glutamate receptor 1 (mGluR1), whose documented role as a modulator of neuronal signaling and synaptic plasticity makes it a plausible schizophrenia candidate.
References	Wangari-Talbot J, et al. (2012) Functional effects of grm1 suppression in human melanoma cells. Mol Cancer Res 10 (11): 1440-1450.Wall BA, et al. (2014) Disruption of grm1-mediated signalling using riluzole results in DNA damage in melanoma cells. Pigment Cell Melanoma Res 27 (2): 263-274.Isola AL, et al. (2018) Exosomes released by metabotropic glutamate receptor 1 (grm1) expressing melanoma cells increase cell migration and invasiveness. Oncotarget 9 (1): 1187-1199.Cabet S, et al. (2019) A novel truncating variant p.(arg297*) in the grm1 gene causing autosomal-recessive cerebellar ataxia with juvenile-onset. Eur J Med Genet 62 (10): 103726.

NCBI AND UNIPROT INFORMATION

NCBI GI #	50927519
NCBI GeneID	14816
UniProt Accession #	P97772; Q6AXG4; Q9EPV6
Molecular Weight	133,212 Da
NCBI Official Full Name	Grm1 protein
NCBI Official Synonym Full Names	glutamate receptor, metabotropic 1
NCBI Official Symbol	Grm1
NCBI Official Synonym Symbols	rcw; wobI; Gprc1a; mGluR1; nmf373; Gm10828; 4930455H15Rik; ENSMUSG00000075319
NCBI Protein Information	metabotropic glutamate receptor 1; G protein coupled receptor, family C, group 1, member A; G protein-coupled receptor, family C, group 1, member A
UniProt Protein Name	Metabotropic glutamate receptor 1
UniProt Gene Name	Grm1
UniProt Synonym Gene Names	Gprc1a; Mglur1; mGluR1
UniProt Entry Name	GRM1_MOUSE

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.