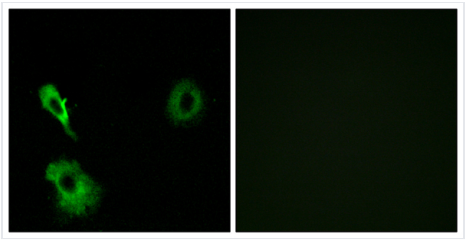
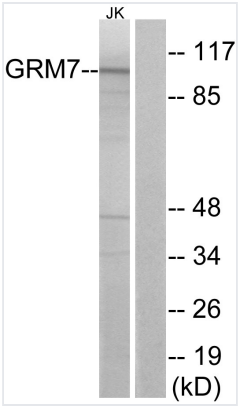
GRM7 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	GRM7, Polyclonal Antibody
Full Product Name	GRM7 Antibody
Product Gene Name	anti-GRM7 antibody
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Purified from rabbit antiserum by affinity-chromatography using immunogen.
Concentration	1 mg/ml (lot specific)
Specificity	GRM7 Antibody detects endogenous levels of total GRM7 protein.
Preparation and Storage	Stable at -20 degree C for at least 1 year.
Molecular Weight	102 kDa
OMIM	X94552 mRNA
3D Structure	ModBase 3D Structure for Q14831
Target Modification	Unmodified/Total
Immunogen	The antiserum was produced against synthesized peptide derived from human GRM7.
Immunogen Range	351-400
Applications Tested/Suitable for anti-GRM7 antibody	Western Blot (WB), Immunofluorescence (IF), ELISA (EIA)
Application Notes for anti-GRM7 antibody	WB: 1:500~1:1000 IF: 1:100~1:500 ELISA: 1:40000
Related Product Information for anti-GRM7 antibody	MBS9508077 is an antibody targeting GRM7. Also known as GRM7 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-GRM7 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Immunofluorescence (IF) of anti-GRM7 antibody
Immunofluorescence analysis of A549 cells, using GRM7 Antibody. The picture on the right is blocked with the synthesized peptide.



Western Blot (WB) of anti-GRM7 antibody
Western blot analysis of lysates from Jurkat cells, using GRM7 Antibody. The lane on the right is blocked with the synthesized peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GRM7. It may not necessarily be applicable to this product.

NCBI GI #	4504147
NCBI GeneID	2917
NCBI Accession #	NP_000835.1
UniProt Primary Accession #	Q14831
UniProt Secondary Accession #	Q8NFS2; Q8NFS3; Q8NFS4
UniProt Related Accession #	Q14831
GenBank Nucleotide #	NM_000844.3
NCBI Official Full Name	metabotropic glutamate receptor 7 isoform a
NCBI Official Synonym Full Names	glutamate metabotropic receptor 7
NCBI Official Symbol	GRM7
NCBI Official Synonym Symbols	GLUR7; MGLU7; GPRC1G; MGLUR7; PPP1R87
UniProt Protein Name	Metabotropic glutamate receptor 7
Protein Family	Metabotropic glutamate receptor
UniProt Gene Name	GRM7
UniProt Synonym Gene Names	GPRC1G; MGLUR7; mGluR7
NCBI Protein Information	metabotropic glutamate receptor 7
NCBI Summary for GRM7	L-glutamate is the major excitatory neurotransmitter in the central nervous system, and it 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 three 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. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jun 2009]
UniProt Comments for GRM7	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.

Research Articles on GRM7	**1.** Autism spectrum disorder (ASD) as a synaptopathy is revealed to be pertained to aberrant glutamatergic neurotransmission. Glutamate receptor, metabotropic 7 (GRM7) is a receptor coding gene of this pathway.
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