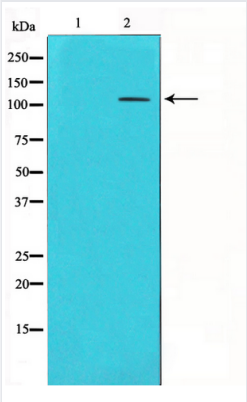
mGluR4 Antibody

PRODUCT OVERVIEW

Product Name	mGluR4, Antibody
Full Product Name	mGluR4 Antibody
Product Gene Name	anti-mGluR4 antibody
Product Synonym Names	glutamate metabotropic receptor 4; glutamate receptor; metabotropic 4; GPRC1D; GRM4; Metabotropic glutamate receptor 4; MGC177594; mGlu4; MGLUR4
Species Reactivity	Human, Mouse, Rat
Form/Format	In phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Affinity-chromatography
Specificity	mGluR4 antibody detects endogenous levels of total mGluR4
Preparation and Storage	Store at-20 degree C for 1 year
Molecular Weight	100kDa
OMIM	604100
3D Structure	ModBase 3D Structure for Q14833
Immunogen	A synthesized peptide derived from human mGluR4
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-mGluR4 antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-mGluR4 antibody	WB: 1:500~1:3000 IHC: 1:50~1:200
Related Product Information for anti-mGluR4 antibody	mGluR4 metabotropic glutamate receptor 3, a G-protein coupled receptor for glutamate. L-glutamate is the major excitatory neurotransmitter in the central nervous system and activates both ionotropic and metabotropic glutamate receptors. The activity of this receptor is mediated by a G-protein that inhibits adenylate cyclase activity.
Other Notes	Small volumes of anti-mGluR4 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.
Searchable Terms for mGluR4 purchase	MBS8510663 is an antibody targeting mGluR4. Also known as mGluR4 Antibody. Reactive in Human, Mouse, Rat.



Western Blot (WB) of anti-mGluR4 antibody
Western blot analysis on 293 cell lysate using mGluR4 Antibody

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for mGluR4. It may not necessarily be applicable to this product.

NCBI GI #	4504141
NCBI GeneID	2914
NCBI Accession #	NP_000832.1
UniProt Primary Accession #	Q14833
UniProt Secondary Accession #	Q5SZ84; Q6ZMQ2; B3KVL9; B7Z1T9; B7Z1U6; F5GXM5
UniProt Related Accession #	Q14833
GenBank Nucleotide #	NM_000841.3
NCBI Official Full Name	metabotropic glutamate receptor 4 isoform 1
NCBI Official Synonym Full Names	glutamate metabotropic receptor 4
NCBI Official Symbol	GRM4
NCBI Official Synonym Symbols	mGlu4; GPRC1D; MGLUR4
UniProt Protein Name	Metabotropic glutamate receptor 4
Protein Family	Metabotropic glutamate receptor
UniProt Gene Name	GRM4
UniProt Synonym Gene Names	GPRC1D; MGLUR4; mGluR4
NCBI Protein Information	metabotropic glutamate receptor 4
NCBI Summary for mGluR4	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. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2012]
UniProt Comments for mGluR4	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 inhibits adenylate cyclase activity.

Research Articles on mGluR4	**1.** Results suggest that variant rs2229901 of glutamate receptor 4 is associated with major depressive disorder risk. This variant probably impacts the interaction between GRM4 and miR-1202.
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