GluR4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	GluR4, Polyclonal Antibody
Full Product Name	GluR4 Antibody
Product Gene Name	anti-GluR4 antibody
Product Synonym Names	Metabotropic glutamate receptor 4; mGluR4; GPRC1D; MGLUR4; GRM4
Clonality	Polyclonal
Isotype	Rabbit IgG
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	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Specificity	The antibody detects endogenous levels of total GluR4 protein.
Preparation and Storage	Store at 4 degree C short term. Aliquot and store at -20 degree C long term. Avoid freeze/thaw cycles.
Molecular Weight	101,868 Da
Chromosome Location	Chromosome: 6; NC_000006.11 (33989623..34123399, complement). Location: 6p21.3
OMIM	604100
3D Structure	ModBase 3D Structure for Q14833
Immunogen	Synthesized peptide derived from human GluR4.
Product Categories/Family for anti-GluR4 antibody	Primary Antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-GluR4 antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-GluR4 antibody	WB: 1:500~1:3000 IHC: 1:50~1:100
Related Product Information for anti-GluR4 antibody	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.
Product References and Citations for anti-GluR4 antibody	Susana Santos Correia, J. Biol. Chem., Feb 2003; 278: 6307 - 6313.Maxim Mokin, J Neurophysiol, Jan 2006; 95: 215 - 224.Maxim Mokin, J Neurophysiol, Jan 2006; 95: 215 - 224.Peyman Golshani, PNAS, Mar 2001; 98: 4172
Other Notes	Small volumes of anti-GluR4 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 GluR4 purchase	MBS8586976 is an antibody targeting GluR4. Also known as GluR4 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GluR4. 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; B7Z1T9; B7Z1U6; F5GXM5
UniProt Related Accession #	Q14833; AAB34891
GenBank Nucleotide #	NM_000841.2
NCBI Official Full Name	metabotropic glutamate receptor 4 isoform 1
NCBI Official Synonym Full Names	glutamate receptor, metabotropic 4
NCBI Official Symbol	GRM4
NCBI Official Synonym Symbols	mGlu4; GPRC1D; MGLUR4
UniProt Protein Name	Metabotropic glutamate receptor 4
Protein Family	Glutamate receptor
UniProt Gene Name	GRM4
UniProt Synonym Gene Names	GPRC1D; MGLUR4; mGluR4
UniProt Entry Name	GRM4_HUMAN
NCBI Protein Information	metabotropic glutamate receptor 4
NCBI Summary for GluR4	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 GluR4	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. Protein type: Cell development/differentiation; GPCR, family 3; Membrane protein, integral; Receptor, GPCR; Membrane protein, multi-pass Chromosomal Location of Human Ortholog: 6p21.3 Cellular Component: presynaptic membrane; integral to plasma membrane; plasma membrane; terminal button; presynaptic active zone membrane; intracellular; cytoplasmic vesicle; dendritic shaft Molecular Function: G-protein coupled receptor activity; calmodulin binding; group III metabotropic glutamate receptor activity; glutamate receptor activity; calcium-dependent protein binding Biological Process: synaptic transmission; regulation of synaptic transmission, glutamatergic; positive regulation of MAPKKK cascade; activation of MAPK activity; neurotransmitter secretion; regulation of neuron apoptosis; learning; metabotropic glutamate receptor, adenylate cyclase inhibiting pathway
Research Articles on GluR4	**1.** Data show that mGlu2 and mGlu4 subunits (but not mGlu2 and mGlu1) can heteromerize.

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