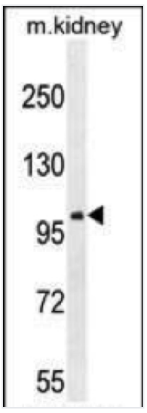
GRIA4 Antibody – Rabbit Polyclonal

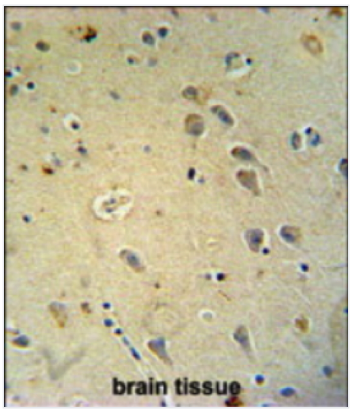
PRODUCT OVERVIEW

Product Name	GRIA4, Polyclonal Antibody
Full Product Name	GRIA4, ID (GRIA4, GLUR4, Glutamate receptor 4, AMPA-selective glutamate receptor 4, GluR-D, Glutamate receptor ionotropic, AMPA 4) (MaxLight 750)
Product Gene Name	anti-GRIA4 antibody
Product Synonym Names	GRIA4; GLUR4; Glutamate receptor 4; AMPA-selective glutamate receptor 4; GluR-D; Glutamate receptor ionotropic; AMPA 4
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified by Protein A and Peptide Affinity Chromatography.
Specificity	Recognizes human GRIA4. Species Crossreactivity: mouse
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	100,871 Da
Chromosome Location	Chromosome: 11; NC_000011.9 (105480800..105852819). Location: 11q22
OMIM	138246
3D Structure	ModBase 3D Structure for P48058
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 259-287 in the central region of human GRIA4, UniProt Accession #P48058. Species sequence homology: monkry and rat
Conjugate	MaxLight750
Note	Preservative Free
Product Categories/Family for anti-GRIA4 antibody	Antibodies; Receptors
Applications Tested/Suitable for anti-GRIA4 antibody	Immunohistochemistry (IHC) Paraffin, Western Blot (WB), FLISA
Application Notes for anti-GRIA4 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-GRIA4 antibody	MBS6304358 is an antibody targeting GRIA4. Also known as GRIA4, ID (GRIA4, GLUR4, Glutamate receptor 4, AMPA-selective glutamate receptor 4, GluR-D, Glutamate receptor ionotropic, AMPA 4) (MaxLight 750). Reactive in Human, Mouse. Host: Rabbit.
Product References and Citations for anti-GRIA4 antibody	1. Need, A.C., et al. Eur. J. Hum. Genet. 17(7):946-957 (2009). 2. Volpi, S., et al. J Clin Psychiatry 70(6):801-809 (2009). 3. Kessels, H.W., et al. Neuron 61(3):340-350 (2009). 4. Arai, S., et al. Psychiatr. Genet. 19(1):6-13 (2009). 4. Aruscavage, P.J., et al. RNA 6(2):257-269 (2000).

Other Notes	Small volumes of anti-GRIA4 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.



Western Blot (WB) of anti-GRIA4 antibody
Western Blot analysis in mouse kidney tissue lysates (35ug/lane) usingMBS6007620.This demonstrates that MBS6007620 detected the GRIA4 protein (arrow).



Immunohistochemistry (IHC) of anti-GRIA4 antibody
Immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue using MBS6007620 followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of MBS6007620 for immunohistochemistry.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GRIA4. It may not necessarily be applicable to this product.

NCBI GI #	164419734
NCBI GeneID	2893
NCBI Accession #	NP_000820.3
UniProt Primary Accession #	P48058
UniProt Secondary Accession #	Q86XE8
UniProt Related Accession #	P48058
GenBank Nucleotide #	NM_000829.3
NCBI Official Full Name	glutamate receptor 4 isoform 1
NCBI Official Synonym Full Names	glutamate receptor, ionotropic, AMPA 4
NCBI Official Symbol	GRIA4
NCBI Official Synonym Symbols	GLUR4; GLURD; GluA4; GLUR4C
UniProt Protein Name	Glutamate receptor 4
UniProt Synonym Protein Names	AMPA-selective glutamate receptor 4; GluR-D; Glutamate receptor ionotropic, AMPA 4
Protein Family	Glutamate receptor
UniProt Gene Name	GRIA4
UniProt Synonym Gene Names	GLUR4; GluR-4; GluR4; GluA4
UniProt Entry Name	GRIA4_HUMAN
NCBI Protein Information	glutamate receptor 4; gluR-4; gluR-D; AMPA-selective glutamate receptor 4; glutamate receptor, ionotrophic, AMPA 4

NCBI Summary for GRIA4	Glutamate receptors are the predominant excitatory neurotransmitter receptors in the mammalian brain and are activated in a variety of normal neurophysiologic processes. These receptors are heteromeric protein complexes composed of multiple subunits, arranged to form ligand-gated ion channels. The classification of glutamate receptors is based on their activation by different pharmacologic agonists. The subunit encoded by this gene belongs to a family of AMPA (alpha-amino-3-hydroxy-5-methyl-4-isoxazole propionate)-sensitive glutamate receptors, and is subject to RNA editing (AGA->GGA; R->G). Alternative splicing of this gene results in transcript variants encoding different isoforms, which may vary in their signal transduction properties. Some haplotypes of this gene show a positive association with schizophrenia. [provided by RefSeq, Jul 2008]
UniProt Comments for GRIA4	GluR4: an integral membrane protein belonging to the glutamate-gated ion channel family. L-glutamate (Glu) acts as an excitatory neurotransmitter at many synapses in the central nervous system. Glutamate receptors are heteromeric protein complexes with multiple subunits, each possessing transmembrane regions, and all arranged to form a ligand-gated ion channel. The postsynaptic actions of Glu are mediated by a variety of receptors that are named according to their selective agonists. This receptor binds AMPA(quisqualate) > glutamate > kainate. Each of the four GluR proteins (GRIA1-4) include flip and flop isoforms generated by alternative RNA splicing. Protein type: Membrane protein, integral; Membrane protein, multi-pass; Channel, ligand-gated Chromosomal Location of Human Ortholog: 11q22 Cellular Component: postsynaptic membrane; dendrite; plasma membrane; cell junction; vesicle Molecular Function: extracellular-glutamate-gated ion channel activity; ionotropic glutamate receptor activity; alpha-amino-3-hydroxy-5-methyl-4-isoxazole propionate selective glutamate receptor activity Biological Process: synaptic transmission; synaptic transmission, glutamatergic; glutamate signaling pathway; transport; ionotropic glutamate receptor signaling pathway
Research Articles on GRIA4	**1.** Did not observed any significant association between GRIA4 polymorphisms and clinical improvement in patients with Major depressive disorder.
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