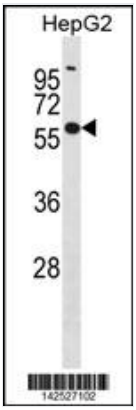
GLUD2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	GLUD2, Polyclonal Antibody
Full Product Name	GLUD2 Antibody (N-term)
Product Gene Name	anti-GLUD2 antibody
Product Synonym Names	Glutamate dehydrogenase 2; mitochondrial; GDH 2; GLUD2; GLUDP1
Clonality	Polyclonal
Isotype	Rabbit Ig
Host	Rabbit
Species Reactivity	Human
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Concentration	Vial Concentration: 0.5 (lot specific)
Specificity	This GLUD2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 75-103 amino acids from the N-terminal region of human GLUD2.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	GLUD2 peptide (MBS9228819) is used for blocking the activity of GLUD2 antibody (MBS9213200)
Molecular Weight	61434
Immunogen Sequence Positions	75-103
OMIM	300144
3D Structure	ModBase 3D Structure for P49448
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Product Categories/Family for anti-GLUD2 antibody	Cell Biology; Metabolism; Signal transduction
Applications Tested/Suitable for anti-GLUD2 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-GLUD2 antibody	WB~~1:1000
Related Product Information for anti-GLUD2 antibody	The protein encoded by this gene is localized to the mitochondrion and acts as a homohexamer to recycle glutamate during neurotransmission. The encoded enzyme catalyzes the reversible oxidative deamination of glutamate to alpha-ketoglutarate. This gene is intronless.

Product References and Citations for anti-GLUD2 antibody	Spanaki, C., et al. J. Biol. Chem. 285(22):16748-16756(2010) Plaitakis, A., et al. Eur. J. Hum. Genet. 18(3):336-341(2010) Zaganas, I., et al. Neurochem. Int. 55 (1-3), 52-63 (2009) : Mastorodemos, V., et al. Biochem. Cell Biol. 87(3):505-516(2009) Kanavouras, K., et al. J. Neurochem. 109 SUPPL 1, 167-173 (2009) :
Other Notes	Small volumes of anti-GLUD2 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 GLUD2 purchase	MBS9213200 is an antibody targeting GLUD2. Also known as GLUD2 Antibody (N-term). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-GLUD2 antibody
GLUD2 Antibody (N-term) western blot analysis in HepG2 cell line lysates (35ug/lane).This demonstrates the GLUD2 antibody detected the GLUD2 protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GLUD2. It may not necessarily be applicable to this product.

NCBI GI #	31377775
NCBI GeneID	2747
NCBI Accession #	NP_036216.2
UniProt Primary Accession #	P49448
UniProt Secondary Accession #	Q9UDQ4; B2R8G0
UniProt Related Accession #	P49448
GenBank Nucleotide #	NM_012084.3
NCBI Official Full Name	glutamate dehydrogenase 2, mitochondrial
NCBI Official Synonym Full Names	glutamate dehydrogenase 2
NCBI Official Symbol	GLUD2
NCBI Official Synonym Symbols	GDH2; GLUDP1
UniProt Protein Name	Glutamate dehydrogenase 2, mitochondrial
Protein Family	Glutamate receptor ionotropic
UniProt Gene Name	GLUD2
UniProt Synonym Gene Names	GLUDP1; GDH 2
UniProt Entry Name	DHE4_HUMAN
NCBI Protein Information	glutamate dehydrogenase 2, mitochondrial

NCBI Summary for GLUD2	The protein encoded by this gene is localized to the mitochondrion and acts as a homohexamer to recycle glutamate during neurotransmission. The encoded enzyme catalyzes the reversible oxidative deamination of glutamate to alpha-ketoglutarate. This gene is intronless.[provided by RefSeq, Jan 2010]
UniProt Comments for GLUD2	GLUD2: Important for recycling the chief excitatory neurotransmitter, glutamate, during neurotransmission. Homohexamer. Expressed in retina, testis and, at a lower level, brain. Belongs to the Glu/Leu/Phe/Val dehydrogenases family. Protein type: Amino Acid Metabolism - alanine, aspartate and glutamate; Mitochondrial; Other Amino Acids Metabolism - D-Glutamine and D-glutamate; Amino Acid Metabolism - arginine and proline; Oxidoreductase; Energy Metabolism - nitrogen; EC 1.4.1.3 Chromosomal Location of Human Ortholog: Xq24-q25 Cellular Component: mitochondrion; cytoplasm Molecular Function: glutamate dehydrogenase activity; glutamate dehydrogenase [NAD(P)+] activity; GTP binding; ADP binding Biological Process: glutamate catabolic process; glutamate metabolic process; glutamate biosynthetic process
Research Articles on GLUD2	**1.** IDH1(R132H) exhibits a growth-inhibitory effect that is abrogated in the presence of glutamate dehydrogenase 2 (GLUD2), a hominoid-specific enzyme purportedly optimized to facilitate glutamate turnover in human forebrain.
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