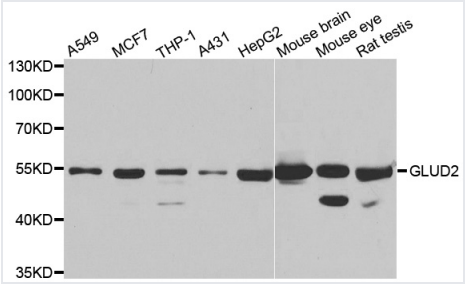
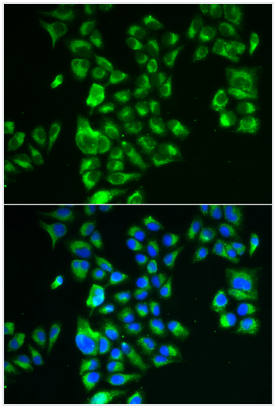
GLUD2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	GLUD2, Polyclonal Antibody
Full Product Name	GLUD2 antibody
Product Gene Name	anti-GLUD2 antibody
Product Synonym Names	GDH2; GLUDP1
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Antibodies were purified by affinity purification using immunogen.
Concentration	1.0 mg/ml (lot specific)
Specificity	The antibody detects endogenous level of total GLUD2 antibody.
Preparation and Storage	Store at -20 degree C
Molecular Weight	61,434 Da
OMIM	300144
3D Structure	ModBase 3D Structure for P49448
Immunogen Type	Recombinant Protein
Immunogen Description	Recombinant protein of human GLUD2.
Target Name	GLUD2
Product Categories/Family for anti-GLUD2 antibody	Total protein Ab
Applications Tested/Suitable for anti-GLUD2 antibody	Western Blot (WB), Immunofluorescence (IF)
Application Notes for anti-GLUD2 antibody	Western blotting: 1:500 - 1:2000 Immunofluorescence: 1:50 - 1:200
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.
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	MBS9403886 is an antibody targeting GLUD2. Also known as GLUD2 antibody. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-GLUD2 antibody
Western blot analysis of extracts of various cell lines, using GLUD2 antibody.



Immunofluorescence (IF) of anti-GLUD2 antibody
Immunofluorescence analysis of A549 cell using GLUD2 antibody. Blue: DAPI for nuclear staining.

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

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: Oxidoreductase; Energy Metabolism - nitrogen; Mitochondrial; EC 1.4.1.3; Amino Acid Metabolism - alanine, aspartate and glutamate; Amino Acid Metabolism - arginine and proline; Other Amino Acids Metabolism - D-Glutamine and D-glutamate 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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