GLS2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	GLS2, Polyclonal Antibody
Full Product Name	GLS2, CT (E513) (GLS2, GA, Glutaminase liver isoform, mitochondrial, L-glutaminase, L-glutamine amidohydrolase) (MaxLight 550)
Product Gene Name	anti-GLS2 antibody
Product Synonym Names	GLS2; GA; Glutaminase liver isoform, mitochondrial; L-glutaminase; L-glutamine amidohydrolase
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 MaxLight550.
Purity/Purification	Purified by Protein A Affinity Chromatography.
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: MaxLight550 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	66,323 Da
Chromosome Location	Chromosome: 12; NC_000012.11 (56864736..56882181, complement). Location: 12q13
OMIM	606365
3D Structure	ModBase 3D Structure for Q9UI32
Immunogen	GLS2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 505-532 amino acids from the C-terminal region of human GLS2.
Conjugate	MaxLight550
Note	Preservative Free
Product Categories/Family for anti-GLS2 antibody	Antibodies; Mitochondrial Proteins
Applications Tested/Suitable for anti-GLS2 antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-GLS2 antibody	IHC: 1:50-100 FLISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-GLS2 antibody	The protein encoded by this gene is a mitochondrial phosphate-activated glutaminase that catalyzes the hydrolysis of glutamine to stoichiometric amounts of glutamate and ammonia. This protein is functionally similar to the kidney glutaminase but is a little smaller in size. Originally thought to be liver-specific, this protein has been found in other tissues as well. At least one transcribed pseudogene has been found for this gene. [provided by RefSeq].
Product References and Citations for anti-GLS2 antibody	Hu, W., et al. Proc. Natl. Acad. Sci. U.S.A. 107(16):7455-7460(2010). Suzuki, S., et al. Proc. Natl. Acad. Sci. U.S.A. 107(16):7461-7466(2010). Szeliga, M., et al. Glia 57(9):1014-1023(2009). Tian, C., et al. J. Neurochem. 105(3):994-1005(2008). Maeshima, H., et al. Prog. Neuropsychopharmacol. Biol. Psychiatry 31(7):1410-1418(2007).

Other Notes	Small volumes of anti-GLS2 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 GLS2 purchase	MBS6302640 is an antibody targeting GLS2. Also known as GLS2, CT (E513) (GLS2, GA, Glutaminase liver isoform, mitochondrial, L-glutaminase, L-glutamine amidohydrolase) (MaxLight 550). Reactive in Human, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GLS2. It may not necessarily be applicable to this product.

NCBI GI #	20336214
NCBI GeneID	27165
NCBI Accession #	NP_037399.2
UniProt Primary Accession #	Q9UI32
UniProt Secondary Accession #	Q8IX91; Q9NYY2; Q9UI31
UniProt Related Accession #	Q0VD99; Q9HB62; Q9UI32
GenBank Nucleotide #	NM_013267.2
NCBI Official Full Name	glutaminase liver isoform, mitochondrial
NCBI Official Synonym Full Names	glutaminase 2 (liver, mitochondrial)
NCBI Official Symbol	GLS2
NCBI Official Synonym Symbols	GA; GLS; LGA; hLGA; MGC71567
UniProt Protein Name	Glutaminase liver isoform, mitochondrial
UniProt Synonym Protein Names	L-glutaminase; L-glutamine amidohydrolase
Protein Family	Glucosidase
UniProt Gene Name	GLS2
UniProt Synonym Gene Names	GA; GLS
UniProt Entry Name	GLSL_HUMAN
NCBI Protein Information	glutaminase liver isoform, mitochondrial; L-glutaminase; glutaminase I; glutaminase GA; OTTHUMP00000179139; breast cell glutaminase; truncated glutaminase 2; L-glutamine amidohydrolase; phosphate-activated glutaminase; phosphate-dependent glutaminase
UniProt Comments for GLS2	GLS2: Plays an important role in the regulation of glutamine catabolism. Promotes mitochondrial respiration and increases ATP generation in cells by catalyzing the synthesis of glutamate and alpha-ketoglutarate. Increases cellular anti-oxidant function via NADH and glutathione production. May play a role in preventing tumor proliferation. Belongs to the glutaminase family. Protein type: Other Amino Acids Metabolism - D-Glutamine and D-glutamate; Energy Metabolism - nitrogen; Amino Acid Metabolism - alanine, aspartate and glutamate; Mitochondrial; Amino Acid Metabolism - arginine and proline; EC 3.5.1.2; Hydrolase Chromosomal Location of Human Ortholog: 12q13.3 Cellular Component: mitochondrion; mitochondrial matrix Molecular Function: protein binding; glutaminase activity Biological Process: amino acid metabolic process; regulation of apoptosis; synaptic transmission; glutamate secretion; neurotransmitter secretion; glutamine metabolic process; amino acid biosynthetic process

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