GLS Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	GLS, Polyclonal Antibody
Full Product Name	GLS (N-Term) Rabbit pAb
Product Gene Name	anti-GLS antibody
Product Synonym Names	Glutaminase kidney isoform, mitochondrial; GLS; K-glutaminase; L-glutamine amidohydrolase; GLS; GLS1; KIAA0838
Clonality	Polyclonal
Isotype	Ig
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	In PBS supplemented with 0.09% (W/V) Sodium Azide.
Purity/Purification	Affinity Purified
OMIM	138280
3D Structure	ModBase 3D Structure for O94925
Immunogen	This GLS antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 144-177 amino acids from human GLS.
Cellular Localization	Cytoplasm, Mitochondrion
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-GLS antibody	Western Blot (WB)
Application Notes for anti-GLS antibody	WB: 1:2000
Related Product Information for anti-GLS antibody	MBS8557657 is an antibody targeting GLS. Also known as GLS (N-Term) Rabbit pAb. Reactive in Human, Mouse. Host: Rabbit.
Other Notes	Small volumes of anti-GLS 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.

ADDITIONAL DETAILS

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

NCBI GI #	12643334
NCBI GeneID	2744
NCBI Accession #	O94925.1
UniProt Primary Accession #	O94925
UniProt Related Accession #	O94925
NCBI Official Full Name	Glutaminase kidney isoform, mitochondrial

NCBI Official Synonym Full Names	glutaminase
NCBI Official Symbol	GLS
NCBI Official Synonym Symbols	GAC; GAM; KGA; GLS1; AAD20; GDPAG; CASGID; EIEE71
UniProt Protein Name	Glutaminase kidney isoform, mitochondrial
UniProt Synonym Protein Names	K-glutaminase; L-glutamine amidohydrolase
Protein Family	Glutaminase kidney
UniProt Gene Name	GLS
UniProt Synonym Gene Names	GLS1; KIAA0838; GLS
UniProt Entry Name	GLSK_HUMAN
NCBI Protein Information	glutaminase kidney isoform, mitochondrial
NCBI Summary for GLS	This gene encodes the K-type mitochondrial glutaminase. The encoded protein is an phosphate-activated amidohydrolase that catalyzes the hydrolysis of glutamine to glutamate and ammonia. This protein is primarily expressed in the brain and kidney plays an essential role in generating energy for metabolism, synthesizing the brain neurotransmitter glutamate and maintaining acid-base balance in the kidney. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jan 2012]
UniProt Comments for GLS	glutaminase: Catalyzes the first reaction in the primary pathway for the renal catabolism of glutamine. Plays a role in maintaining acid-base homeostasis. Regulates the levels of the neurotransmitter glutamate in the brain. Isoform 2 lacks catalytic activity. Belongs to the glutaminase family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Amino Acid Metabolism - arginine and proline; Hydrolase; Mitochondrial; Amino Acid Metabolism - alanine, aspartate and glutamate; Other Amino Acids Metabolism - D-Glutamine and D-glutamate; Energy Metabolism - nitrogen; EC 3.5.1.2 Chromosomal Location of Human Ortholog: 2q32-q34 Cellular Component: mitochondrion; mitochondrial matrix; cytosol Molecular Function: protein binding; glutaminase activity Biological Process: synaptic transmission; glutamate secretion; suckling behavior; neurotransmitter secretion; glutamine catabolic process; neurological control of breathing; glutamate biosynthetic process; amino acid biosynthetic process; protein homotetramerization
Research Articles on GLS	**1.** HSF1 stimulated GLS1-dependent mTOR activation to promote colorectal carcinogenesis.
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