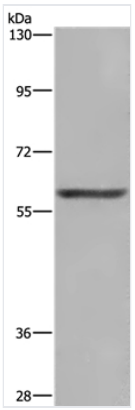
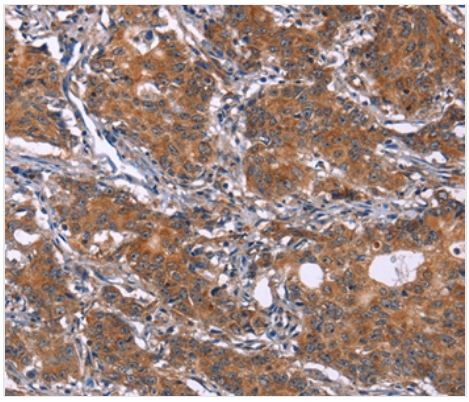
GLS Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	GLS, Polyclonal Antibody
Full Product Name	GLS Antibody
Product Gene Name	anti-GLS antibody
Product Synonym Names	GAC; GAM; KGA; GLS1; AAD20
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Rabbit IgG in pH7.4 PBS, 0.05% NaN3, 40% Glycerol.
Purity/Purification	Antigen affinity purification.
Concentration	1.7 mg/ml (lot specific)
Specificity	The antibody detects endogenous levels of total GLS protein.
Preparation and Storage	Store at -20 degree C
Molecular Weight	SDS-PAGE MW: 73kd
OMIM	138280
3D Structure	ModBase 3D Structure for O94925
Immunogen Type	Peptide
Immunogen Description	Synthetic peptide corresponding to residues near the C terminal of human glutaminase
Target Name	GLS
Product Categories/Family for anti-GLS antibody	Total protein Ab
Applications Tested/Suitable for anti-GLS antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-GLS antibody	Western blotting: 1:200-1:1000 Immunohistochemistry: 1:25-1:100
Related Product Information for anti-GLS antibody	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.
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.
Searchable Terms for GLS purchase	MBS9408666 is an antibody targeting GLS. Also known as GLS Antibody. Reactive in Human. Host: Rabbit.



Testing Data of anti-GLS antibody
Gel: 6%SDS-PAGE Lysate: 40ug HepG2 cell Primary antibody: 1/400 dilution Secondary antibody dilution: 1/8000 Exposure time: 1 second



Immunohistochemistry (IHC) of anti-GLS antibody
Immunohistochemical analysis of paraffin-embedded Human gastric cancer tissue using at dilution 1/25.

ADDITIONAL DETAILS

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

NCBI GI #	373251164
NCBI GeneID	2744
NCBI Accession #	NP_001243239.1
UniProt Primary Accession #	O94925
UniProt Secondary Accession #	Q9UL05; Q9UL06; Q9UL07; Q9UN40
UniProt Related Accession #	O94925
GenBank Nucleotide #	NM_001256310.1
NCBI Official Full Name	glutaminase kidney isoform, mitochondrial isoform 2
NCBI Official Synonym Full Names	glutaminase
NCBI Official Symbol	GLS
NCBI Official Synonym Symbols	GAC; GAM; KGA; GLS1; AAD20
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

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; Other Amino Acids Metabolism - D-Glutamine and D-glutamate; Energy Metabolism - nitrogen; Mitochondrial; Hydrolase; EC 3.5.1.2; Amino Acid Metabolism - alanine, aspartate and glutamate Chromosomal Location of Human Ortholog: 2q32-q34 Cellular Component: mitochondrion; mitochondrial matrix; cytosol Molecular Function: protein binding; glutaminase activity Biological Process: synaptic transmission; suckling behavior; glutamate secretion; neurotransmitter secretion; glutamine catabolic process; neurological control of breathing; amino acid biosynthetic process; glutamate biosynthetic process; protein homotetramerization
Research Articles on GLS	**1.** studies demonstrate that GLS is required for tumorigenesis and support small molecule and genetic inhibition of GLS as potential approaches for targeting the tumor cell-autonomous dependence on GLS for cancer therapy.
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