

**GLS2 Antibody**  
**Purified Mouse Monoclonal Antibody (Mab)**  
**Catalog # AM8595b**

**Specification**

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**GLS2 Antibody - Product Information**

Application	<b>WB, IHC-P,E</b>
Primary Accession	<a href="#">O9UI32</a>
Reactivity	<b>Human, Mouse</b>
Host	<b>Mouse</b>
Clonality	<b>monoclonal</b>
Isotype	<b>IgG1,k</b>
Calculated MW	<b>66323</b>

**GLS2 Antibody - Additional Information**

**Gene ID** 27165

**Other Names**

Glutaminase liver isoform, mitochondrial, GLS, 3.5.1.2, L-glutaminase, L-glutamine amidohydrolase, GLS2, GA

**Target/Specificity**

This GLS2 antibody is generated from a mouse immunized with a recombinant protein of human GLS2.

**Dilution**

WB~~1:1000-1:2000  
IHC-P~~1:25

**Format**

Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

GLS2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**GLS2 Antibody - Protein Information**

**Name** GLS2

**Synonyms** GA

**Function** 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.

#### Cellular Location

Mitochondrion.

#### Tissue Location

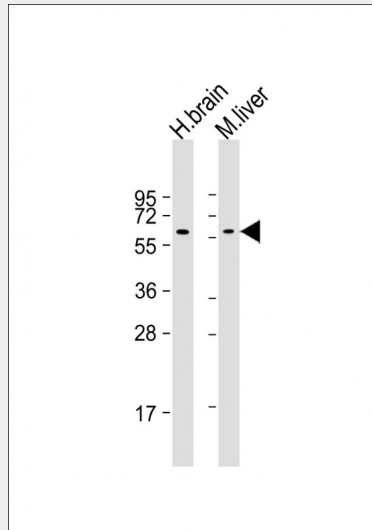
Highly expressed in liver. Expressed in brain and pancreas. Not observed in heart, placenta, lung, skeletal muscle and kidney. Expression is significantly reduced in hepatocellular carcinomas.

### GLS2 Antibody - Protocols

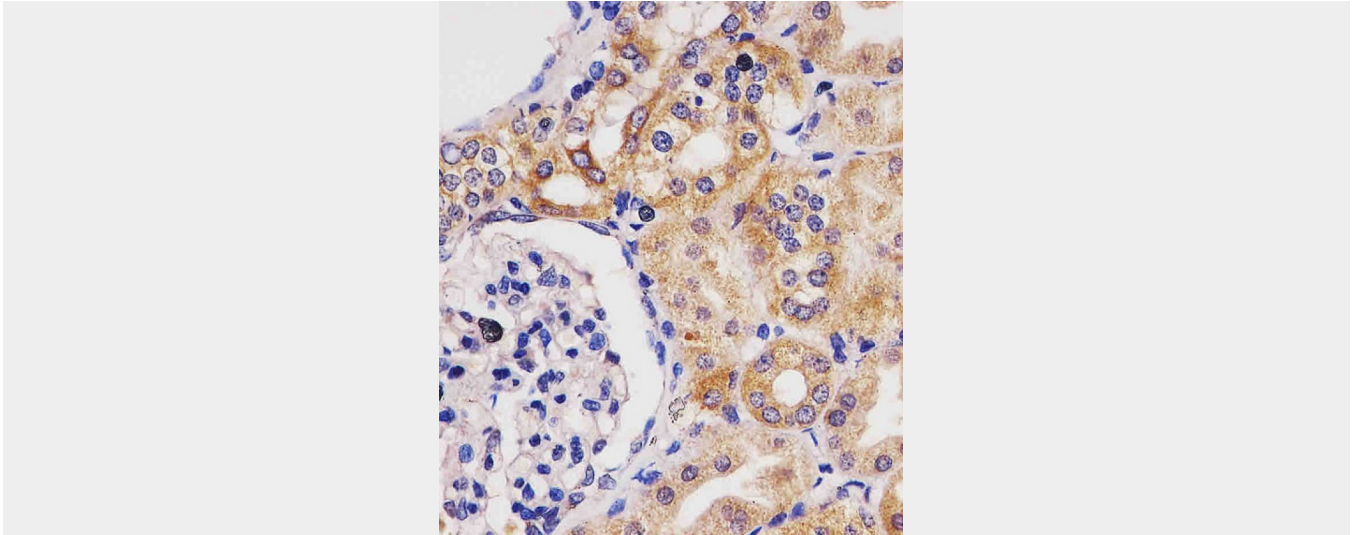
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### GLS2 Antibody - Images



All lanes : Anti-GLS2 Antibody at 1:1000-1:2000 dilution Lane 1: human brain lysate Lane 2: mouse liver lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 66 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



AM8595b staining GLS2 in human kidney tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0.5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hour at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.

#### **GLS2 Antibody - Background**

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.

#### **GLS2 Antibody - References**

Gomez-Fabre P.M., et al. *Biochem. J.* 345:365-375(2000).  
Perez-Gomez C., et al. *Biochem. J.* 370:771-784(2003).  
Chavez R.A., et al. Submitted (JAN-2000) to the EMBL/GenBank/DDBJ databases.  
Ota T., et al. *Nat. Genet.* 36:40-45(2004).  
Scherer S.E., et al. *Nature* 440:346-351(2006).