

## Mouse anti-Human, Mouse GLS2 Monoclonal Antibody | anti-GLS2 antibody

GLS2 Antibody

|                               |                      |                                   |                                                                  |
|-------------------------------|----------------------|-----------------------------------|------------------------------------------------------------------|
| CATALOG #<br><b>AAA290837</b> | HOST<br><b>Mouse</b> | REACTIVITY<br><b>Human, Mouse</b> | APPLICATIONS<br><b>Immunohistochemistry, ELISA, Western Blot</b> |
|-------------------------------|----------------------|-----------------------------------|------------------------------------------------------------------|

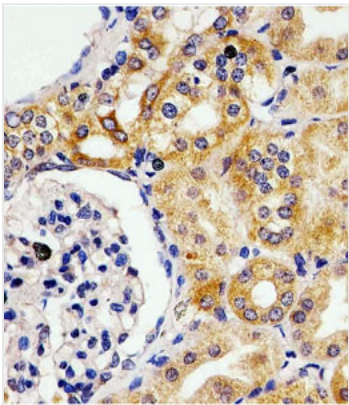
### PRODUCT SYNONYMS

GLS2; Monoclonal Antibody; GLS2 Antibody; Glutaminase liver isoform; mitochondrial; GLS; 3.5.1.2; L-glutaminase; L-glutamine amidohydrolase; GA; anti-GLS2 antibody

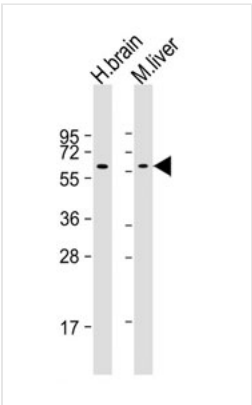
### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                                                                                                                                                                                                                                                 |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Mouse                                                                                                                                                                                                                                                                                                                                           |
| Reactivity                                     | Human, Mouse                                                                                                                                                                                                                                                                                                                                    |
| Clonality                                      | Monoclonal                                                                                                                                                                                                                                                                                                                                      |
| Isotype                                        | IgG1,k                                                                                                                                                                                                                                                                                                                                          |
| Specificity                                    | This GLS2 antibody is generated from a mouse immunized with a recombinant protein of human GLS2.                                                                                                                                                                                                                                                |
| Form/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.                                                                                                                                                                             |
| Sequence Length                                | 337                                                                                                                                                                                                                                                                                                                                             |
| Applicable Applications for anti-GLS2 antibody | IHC (Immunohistochemistry), ELISA, WB (Western Blot)                                                                                                                                                                                                                                                                                            |
| 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.                                                                                                                                                |
| 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. |
| Preparation and Storage                        | Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.                                                                                                                                                                                           |

IMAGES



**IHC (Immunohistochemistry)**  
AAA290837 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 polyclonal antibody was used as the secondary antibody.



**WB (Western Blot)**  
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 ug 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.

ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                                                                                                                                                                                |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-GLS2 antibody | 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. |
| Product Categories/Family for anti-GLS2 antibody   | Crown Antibodies; Primary Antibodies; Metabolism; Signal Transduction                                                                                                                                                                                                                                                                          |
| 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/DBJ databases. Ota T.,et al.Nat. Genet. 36:40-45 (2004). Scherer S.E.,et al.Nature 440:346-351 (2006).                                                                  |

NCBI AND UNIPROT INFORMATION

|                                  |                                                    |
|----------------------------------|----------------------------------------------------|
| NCBI GI #                        | 526118222                                          |
| NCBI GeneID                      | 27165                                              |
| NCBI Accession #                 | NP_001267727.1                                     |
| NCBI GenBank Nucleotide #        | NM_001280798.1                                     |
| UniProt Accession #              | Q9UI32; Q8IX91; Q9NYY2; Q9UI31; B7Z8Q9             |
| Molecular Weight                 | 66323 Da                                           |
| NCBI Official Full Name          | glutaminase liver isoform, mitochondrial isoform 4 |
| NCBI Official Synonym Full Names | glutaminase 2                                      |
| NCBI Official Symbol             | GLS2                                               |
| NCBI Official Synonym Symbols    | GA; GLS; LGA; hLGA                                 |
| NCBI Protein Information         | glutaminase liver isoform, mitochondrial           |
| UniProt Protein Name             | Glutaminase liver isoform, mitochondrial           |
| UniProt Gene Name                | GLS2                                               |
| UniProt Synonym Gene Names       | GA; GLS                                            |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)

Online datasheet: <https://stage.aaabiotech.com/monoclonal/gls2-antibody-immunohistochemistry-western-blot-elisa/290837>