

Rabbit anti-Rat GLS2 Polyclonal Antibody | anti-GLS2 antibody

GLS2 Antibody

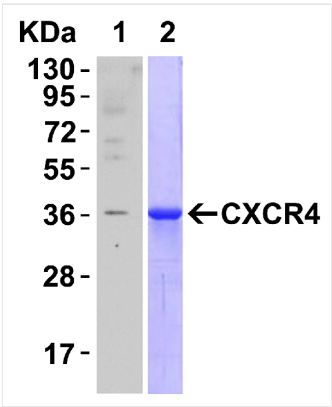
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA39415	Rabbit	Rat	Immunofluorescence, Immunohistochemistry, Western Blot, ELISA

PRODUCT SYNONYMS

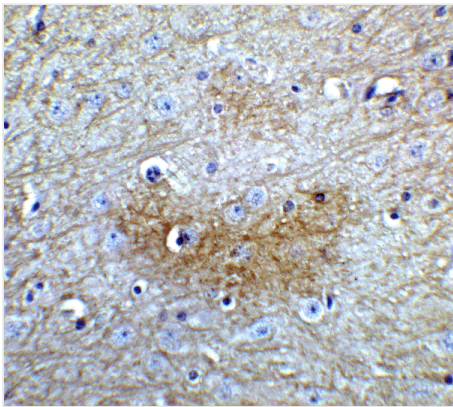
GLS2; Polyclonal Antibody; GLS2 Antibody; GA; GLS; LGA; hLGA; Glutaminase liver isoform; mitochondrial; L-glutaminase; glutaminase 2 (liver; mitochondrial); anti-GLS2 antibody

PRODUCT SPECIFICATIONS

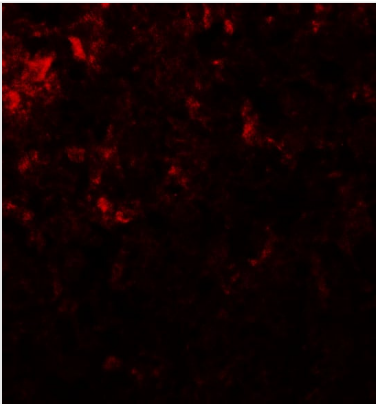
Host	Rabbit
Reactivity	Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Multiple isoforms of GLS2 are known to exist.
Purity/Purification	GLS2 Antibody is affinity chromatography purified via peptide column.
Form/Format	Liquid
Concentration	1 mg/mL (varies by lot)
Sequence Length	602
Applicable Applications for anti-GLS2 antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot), ELISA
Conjugate	Unconjugated
Immunogen	GLS2 antibody was raised against an 18 amino acid synthetic peptide near the center terminus of human GLS2.
Buffer	GLS2 Antibody is supplied in PBS containing 0.02% sodium azide.
Preparation and Storage	Antibody can be stored at 4 degree C up to one year. Antibodies should not be exposed to prolonged high temperatures.



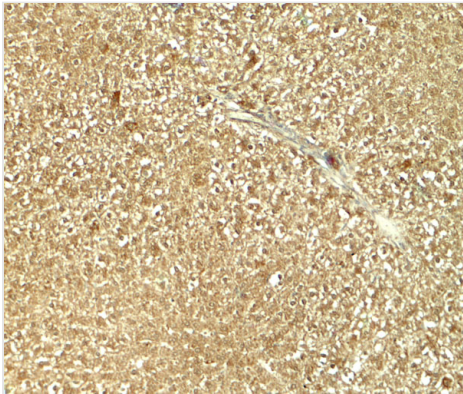
IF (Immunofluorescence)
Immunofluorescence of GLS2 in mouse brain tissue with GLS2 Antibody at 20 μg/mL.Green: GLS2 antibody (6217)Red: Phylloidin stainingBlue: DAPI staining



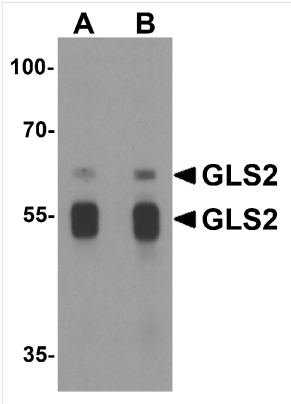
IHC (Immunohistochemistry)
Immunohistochemistry of GLS2 in mouse brain tissue with GLS2 Antibody at 5 μg/mL.



IF (Immunofluorescence)
Immunofluorescence of GLS2 in rat liver cells with GLS2 antibody at 20 5 μg/mL.



IHC (Immunohistochemistry)
Immunohistochemistry of GLS2 in rat liver tissue with GLS2 antibody at 5 μg/mL.



WB (Western Blot)
Western blot analysis of GLS2 in rat liver tissue lysate with GLS2 antibody at (A) 1 and (B) 2 μg/mL.

ADDITIONAL INFORMATION

Related Product Information for anti-GLS2 antibody	GLS2 Antibody: Phosphate-activated glutaminase, also known as Glutaminase 2 (GLS2), was initially isolated from rat liver, although it has been shown to be expressed in other tissues. Like the functionally similar, larger kidney glutaminase, GLS2 catalyzes the hydrolysis of glutamine to stoichiometric amounts of glutamate and ammonia. Expression of GLS2 is increased by p53 under both stressed and nonstressed conditions, resulting in increased levels of glutamate and alpha-ketoglutarate, which in turn results in enhanced mitochondrial respiration and ATP generation. GLS2 also regulates antioxidant defense function in cells by increasing reduced glutathione levels and decreasing ROS-levels, suggesting that GLS2 acts as a mediator of p53's role in antioxidant defense in addition to its role in energy metabolism.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	20336214
NCBI GeneID	27165
NCBI Accession #	NP_037399
NCBI GenBank Nucleotide #	NM_013267.3
UniProt Accession #	Q9UI32; Q8IX91; Q9NYY2; Q9UI31; B7Z8Q9
Molecular Weight	Predicted: 36; 55; 62; 66 kDa Observed: 55; 62 kDa
NCBI Official Full Name	glutaminase liver isoform, mitochondrial isoform 1
NCBI Official Synonym Full Names	glutaminase 2 (liver, mitochondrial)
NCBI Official Symbol	GLS2
NCBI Official Synonym Symbols	GA; GLS; LGA; hLGA
NCBI Protein Information	glutaminase liver isoform, mitochondrial; glutaminase I; breast cell glutaminase; L-glutamine amidohydrolase; phosphate-activated glutaminase; phosphate-dependent glutaminase
UniProt Protein Name	Glutaminase liver isoform, mitochondrial
UniProt Gene Name	GLS2
UniProt Synonym Gene Names	GA; GLS
UniProt Entry Name	GLSL_HUMAN

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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/gls2-antibody-immunofluorescence-immunohistochemistry-western-blot-elisa/39415>