Rabbit GLS Polyclonal Antibody | anti-GLS antibody

GLS Antibody (C-term)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA28657	**Rabbit**	**Human, mouse (Predicted Reactivity: Rat)**	**Western Blot, ELISA, Immunohistochemistry, Immunofluorescence, Flow Cytometry, Functional Assay**

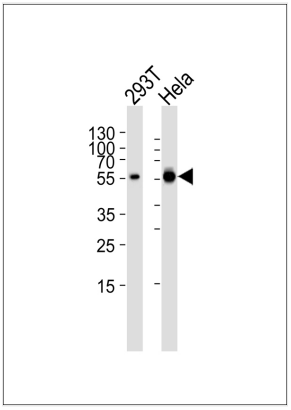
PRODUCT SYNONYMS

GLS; Polyclonal Antibody; GLS Antibody (C-term); Glutaminase kidney isoform; mitochondrial; K-glutaminase; L-glutamine amidohydrolase; GLS1; KIAA0838; anti-GLS antibody

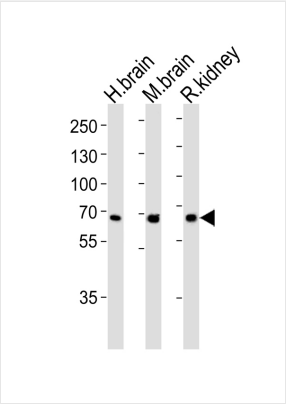
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, mouse (Predicted Reactivity: Rat)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This GLS antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 516-545 amino acids from the C-terminal region of human GLS.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Concentration	Vial Concentration: 0.5 (varies by lot)
Sequence Positions	516-545
Sequence Length	598
Applicable Applications for anti-GLS antibody	WB (Western Blot), ELISA, IHC (Immunohistochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Application Notes	WB~~1:1000
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

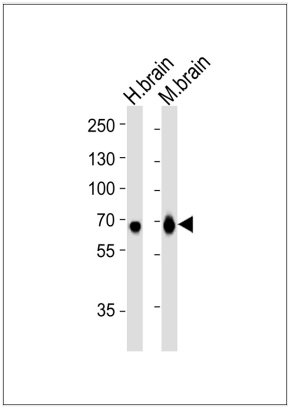
IMAGES



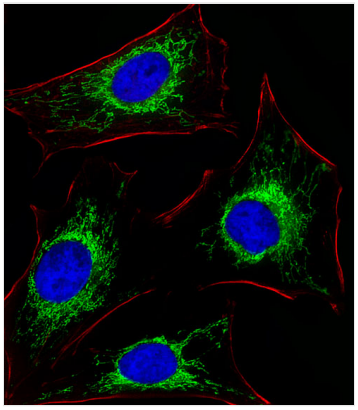
WB (Western Blot)
Western blot analysis of lysates from 293T, Hela cell line (from left to right), using GLS Antibody (C-term). AAA28657 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysates at 35ug per lane.



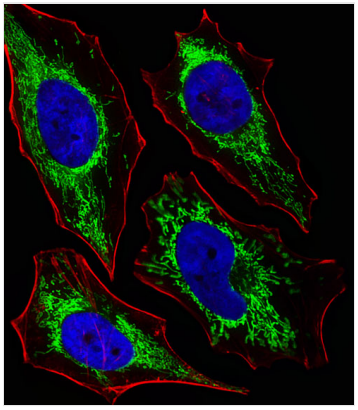
WB (Western Blot)
Western blot analysis of lysates from human brain, mouse brain ad rat kidney tissue lysate (from left to right), using GLS Antibody (C-term). AAA28657 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysates at 35ug per lane.



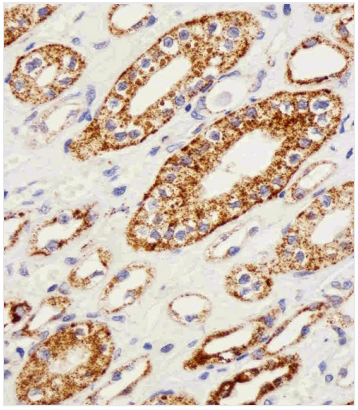
WB (Western Blot)
Western blot analysis of lysates from human brain and mouse brain tissue lysate (from left to right), using GLS Antibody (C-term). AAA28657 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysates at 35ug per lane.



IF (Immunofluorescence)
Fluorescent image of Hela cells stained with XAF1 GLS Antibody (C-term). AAA28657 was diluted at 1:25 dilution. An Alexa Fluor 488-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody (green). DAPI was used to stain the cell nuclear (blue). Cytoplasmic actin was counterstained with Alexa Fluor 555 conjugated with Phalloidin (red).



IF (Immunofluorescence)
Fluorescent image of Hela cells stained with XAF1 GLS Antibody (C-term). AAA28657 was diluted at 1:25 dilution. An Alexa Fluor 488-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody (green). DAPI was used to stain the cell nuclear (blue). Cytoplasmic actin was counterstained with Alexa Fluor 555 conjugated with Phalloidin (red).



IHC (Immunohistochemistry)
Immunohistochemical analysis of paraffin-embedded H.kidney section using GLS Antibody (C-term). AAA28657 was diluted at 1:25 dilution. A peroxidase-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.

ADDITIONAL INFORMATION

Related Product Information for anti-GLS antibody	Sahai (1983) demonstrated phosphate-activated glutaminase (EC 3.5.1.2) in human platelets. It is the major enzyme yielding glutamate from glutamine. Significance of the enzyme derives from its possible implication in behavior disturbances in which glutamate acts as a neurotransmitter(Prusiner, 1981). High heritability of platelet glutaminase was indicated by studies of Sahai and Vogel (1983) [PubMed 6682827] who found an intraclass correlation coefficient of 0.96 for monozygotic twins and 0.53 for dizygotic twins.
Product Categories/Family for anti-GLS antibody	Metabolism; Neuroscience; Signal Transduction
References	Swierczynski,J., et.al., Biochim. Biophys. Acta 1157 (1), 55-62 (1993)

NCBI AND UNIPROT INFORMATION

NCBI GI #	373251164
NCBI GeneID	2744
NCBI Accession #	NP_001243239.1; NP_055720.3
NCBI GenBank Nucleotide #	NM_001256310.1
UniProt Accession #	O94925; Q9UL05; Q9UL06; Q9UL07; Q9UN40
Molecular Weight	73461
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
NCBI Protein Information	glutaminase kidney isoform, mitochondrial
UniProt Protein Name	Glutaminase kidney isoform, mitochondrial
UniProt Gene Name	**GLS**
UniProt Synonym Gene Names	GLS1; KIAA0838; GLS
UniProt Entry Name	GLSK_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: https://www.aaabiotech.com/polyclonal/gls-antibody-western-blot-immunohistochemistry-immunofluorescence-flow-cytometry-elisa/28657