

Rabbit GCLC Polyclonal Antibody | anti-GCLC antibody

GCLC Antibody (Center)

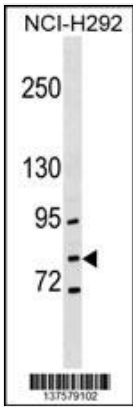
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA286098	Rabbit	Human, mouse (Predicted Reactivity: Rat)	ELISA, Western Blot

PRODUCT SYNONYMS

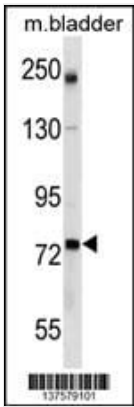
GCLC; Polyclonal Antibody; GCLC Antibody (Center); Glutamate--cysteine ligase catalytic subunit; GCS heavy chain; Gamma-ECS; Gamma-glutamylcysteine synthetase; GLCL; GLCLC; anti-GCLC antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, mouse (Predicted Reactivity: Rat)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This GCLC antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 286-315 amino acids from the Central region of human GCLC.
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: 0.4 (varies by lot)
Sequence Positions	286-315
Sequence Length	637
Applicable Applications for anti-GCLC antibody	ELISA, WB (Western Blot)
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.



WB (Western Blot)
GCLC Antibody (Center) western blot analysis in NCI-H292 cell line lysates (35ug/lane).This demonstrates the GCLC antibody detected the GCLC protein (arrow).



WB (Western Blot)
GCLC Antibody (Center) western blot analysis in mouse bladder tissue lysates (35ug/lane).This demonstrates the GCLC antibody detected the GCLC protein (arrow).

ADDITIONAL INFORMATION

Related Product Information for anti-GCLC antibody	Glutamate-cysteine ligase, also known as gamma-glutamylcysteine synthetase is the first rate-limiting enzyme of glutathione synthesis. The enzyme consists of two subunits, a heavy catalytic subunit and a light regulatory subunit. This locus encodes the catalytic subunit, while the regulatory subunit is derived from a different gene located on chromosome 1p22-p21. Mutations at this locus have been associated with hemolytic anemia due to deficiency of gamma-glutamylcysteine synthetase and susceptibility to myocardial infarction.
Product Categories/Family for anti-GCLC antibody	Cell Biology; Metabolism; Signal transduction
References	Man, B.L., et al. J Clin Neurosci 17(10):1244-1247(2010) Jia, P., et al. Schizophr. Res. 122 (1-3), 38-42 (2010) : Le, T.M., et al. Mol. Genet. Metab. 101(1):55-61(2010) Fullerton, J.M., et al. Bipolar Disord 12(5):550-556(2010) Wang, X., et al. PLoS ONE 5 (8), E11934 (2010) :

NCBI AND UNIPROT INFORMATION

NCBI GI #	308199423
NCBI GeneID	2729
NCBI Accession #	NP_001184044.1; NP_001489.1
NCBI GenBank Nucleotide #	NM_001197115.1
UniProt Accession #	P48506; Q14399
Molecular Weight	72766
NCBI Official Full Name	glutamate--cysteine ligase catalytic subunit isoform b
NCBI Official Synonym Full Names	glutamate-cysteine ligase, catalytic subunit
NCBI Official Symbol	GCLC
NCBI Official Synonym Symbols	GCL; GCS; GLCL; GLCLC
NCBI Protein Information	glutamate--cysteine ligase catalytic subunit
UniProt Protein Name	Glutamate--cysteine ligase catalytic subunit

UniProt Gene Name	GCLC
UniProt Synonym Gene Names	GLCL; GLCLC
UniProt Entry Name	GSH1_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/gclc-antibody-western-blot-elisa/286098>