

Rabbit GCLC Polyclonal Antibody | anti-GCLC antibody

GCLC antibody - N-terminal region

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA23555	Rabbit	Cow, Dog, Guinea Pig, Horse, Human, Mouse, Rabbit, Rat, Zebrafish	Western Blot, Immunohistochemistry

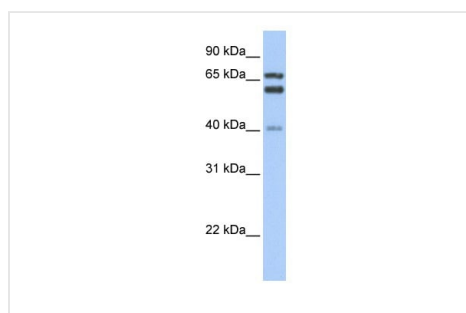
PRODUCT SYNONYMS

GCLC; Polyclonal Antibody; GCLC antibody - N-terminal region; anti-GCLC antibody

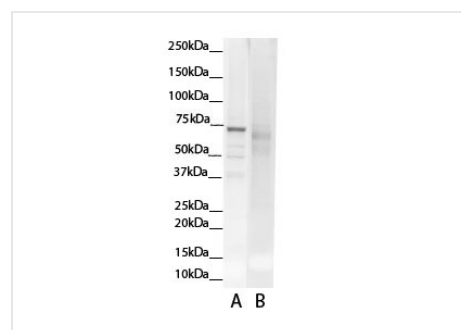
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Cow, Dog, Guinea Pig, Horse, Human, Mouse, Rabbit, Rat, Zebrafish
Clonality	Polyclonal
Purity/Purification	Affinity Purified
Form/Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Sequence	Synthetic peptide with the following region: VL ETLQEKGERT NPNHPTLWRP EYGSYMI EGT PGQPYGGTMS EFNTVEAN
Sequence Length	637
Applicable Applications for anti-GCLC antibody	WB (Western Blot), IHC (Immunohistochemistry)
Homology	Cow: 100%; Dog: 100%; Guinea Pig: 100%; Horse: 93%; Human: 100%; Mouse: 100%; Rabbit: 100%; Rat: 100%; Zebrafish: 79%
Immunogen	The immunogen is a synthetic peptide directed towards the N terminal region of human GCLC
Preparation and Storage	For short term use, store at 2-8 degree C up to 1 week. For long term storage, store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

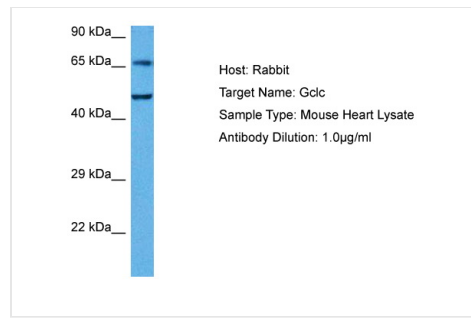
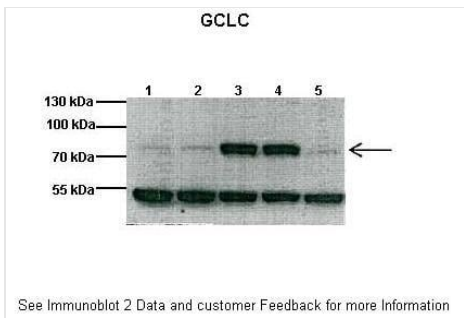
IMAGES


WB (Western Blot)

WB Suggested Anti-GCLC Antibody Titration: 0.2-1 ug/ml Positive Control: Human Liver


WB (Western Blot)

WB Suggested Anti-GCLC Antibody Titration: 0.2-1 ug/ml. A: - blocking peptide. B: + blocking peptide.

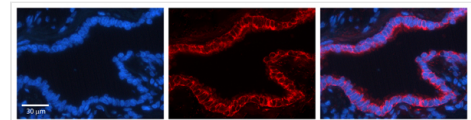
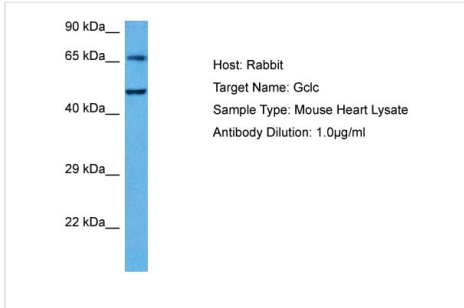


WB (Western Blot)

Lanes:1: 40ug mouse heart lysate, 2: 40ug mouse heart lysate, 3: 40ug mouse heart lysate, 4: 40ug mouse heart lysate, 5: 40ug mouse heart lysate
Primary Antibody Dilution:1:1000Secondary Antibody:Anti-rabbit HRPSecondary Antibody Dilution:1:10000Gene Name:GCLCSubmitted by:Anonymous

WB (Western Blot)

Host: RabbitTarget Name: GCLCSample Tissue: Mouse HeartAntibody Dilution: 1ug/ml



IHC (Immunohistochemistry)

GCLC antibody - N-terminal region Formalin Fixed Paraffin Embedded Tissue: Human Bronchial Epithelial Tissue Observed Staining: Cytoplasm and membrane of bronchial epithelial tissuePrimary Antibody Concentration: 1:600 Secondary Antibody: Donkey anti-Rabbit-Cy3 Secondary Antibody Concentration: 1:200 Magnification: 20X Exposure Time: 0.5 - 2.0 sec

WB (Western Blot)

Host: MouseTarget Name: GCLCSample Tissue: Mouse HeartAntibody Dilution: 1ug/ml

ADDITIONAL INFORMATION

Related Product Information for anti-GCLC antibody

This is a rabbit polyclonal antibody against GCLC. It was validated on Western Blot using a cell lysate as a positive control.

Target Description: 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. GCLC is the catalytic subunit of 637 amino acids with a calculated molecular weight of 72.773 kDa. Deficiency of gamma-glutamylcysteine synthetase in human is associated with enzymopathic hemolytic anemia. 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. The gene encoding the catalytic subunit encodes a protein of 367 amino acids with a calculated molecular weight of 72.773 kDa and maps to chromosome 6. The regulatory subunit is derived from a different gene located on chromosome 1p22-p21. Deficiency of gamma-glutamylcysteine synthetase in human is associated with enzymopathic hemolytic anemia. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications.

Product Categories/Family for anti-GCLC antibody

Polyclonal; Transcription Factor; Signal Proteins; Drugs and Drug Metabolism; Chromatin & Nuclear Signaling; Disease Related; DNA/RNA/Protein Interactions; Transcription Factors

NCBI AND UNIPROT INFORMATION

NCBI GI #	4557625
NCBI GeneID	2729
NCBI Accession #	NP_001489
NCBI GenBank Nucleotide #	NM_001498
UniProt Accession #	P48506
Molecular Weight	73kDa

NCBI Official Full Name	glutamate--cysteine ligase catalytic subunit isoform a
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-immunohistochemistry-elisa/23555>