

Rabbit GCLC Polyclonal Antibody | anti-GCLC antibody

Anti-GCLC antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA45105	Rabbit	Human, Mouse, Rat	Immunohistochemistry, Western Blot

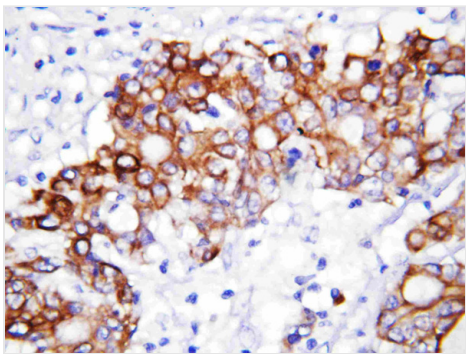
PRODUCT SYNONYMS

GCLC; Polyclonal Antibody; Anti-GCLC antibody; Glutamate--cysteine ligase catalytic subunit; glutamate-cysteine ligase; catalytic subunit; EC 6.3.2.2 antibody; Gamma ECS antibody; Gamma GCS antibody; Gamma glutamylcysteine synthetase antibody; Gamma-ECS antibody; Gamma-glutamylcysteine synthetase antibody; GCL antibody; GCLC antibody; GCLM antibody; GCS antibody; GCS Heavy Chain antibody; GLCL antibody; GLCLC antibody; GLCLR antibody; Glutamate cysteine ligase catalytic subunit antibody; Glutamate cysteine ligase(gamma glutamylcysteine synthetase) regulatory(30.8kD) antibody; Glutamate cysteine ligase modifier subunit antibody; Glutamate cysteine ligase regulatory protein antibody; Glutamate cysteine ligase regulatory subunit antibody; Glutamate--cysteine ligase catalytic subunit antibody; GSC light chain antibody; GSH1_HUMAN antibody; anti-GCLC antibody

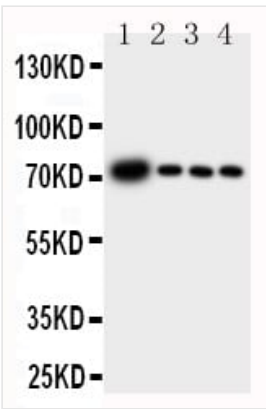
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized
Sequence Length	637
Applicable Applications for anti-GCLC antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human GCLC (6-23aa GSPLSWEETKRHADHVRR), different from the related rat and mouse sequences by one amino acid.
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



IHC (Immunohistochemistry)
Anti-GCLC antibody, AAA45105, IHC(P)IHC(P): Human Rectal Cancer Tissue



WB (Western Blot)
Anti-GCLC antibody, AAA45105, Western blottingLane 1: Rat Brain Tissue LysateLane 2: Rat Kidney Tissue LysateLane 3: Rat Heart Tissue LysateLane 4: Rat Lung Tissue Lysate

ADDITIONAL INFORMATION

Related Product Information for anti-GCLC antibody

Description: Rabbit IgG polyclonal antibody for Glutamate--cysteine ligase catalytic subunit(GCLC) detection. Tested with WB, IHC-P in Human, Mouse, Rat.

Background: GCLC, Glutamate--cysteine ligase catalytic subunit, is an enzyme that in humans is encoded by the GCLC gene. 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 6p12.1. Deficiency of gamma-glutamylcysteine synthetase in human is associated with enzymopathic hemolytic anemia.

NCBI AND UNIPROT INFORMATION

NCBI GI #	1346190
NCBI GeneID	2729
UniProt Accession #	P48506; Q14399
Molecular Weight	72,766 Da
NCBI Official Full Name	Glutamate--cysteine ligase catalytic subunit
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; gamma-ECS; GCS heavy chain; gamma-glutamylcysteine synthetase
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.