

Anti-GCLC Picoband Antibody

Catalog # ABO11892

Specification

Anti-GCLC Picoband Antibody - Product Information

Application WB, IHC-P
Primary Accession P48506
Host Rabbit
Reactivity Human, Rat
Clonality Polyclonal
Format Lyophilized

Description

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

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-GCLC Picoband Antibody - Additional Information

Gene ID 2729

Other Names

Glutamate--cysteine ligase catalytic subunit, 6.3.2.2, GCS heavy chain, Gamma-ECS, Gamma-glutamylcysteine synthetase, GCLC, GLCL, GLCLC

Calculated MW

72766 MW KDa

Application Details

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μ g/ml, Human, By Heat
blot, 0.1-0.5 μ g/ml, Human, Rat
br>

Protein Name

Glutamate--cysteine ligase catalytic subunit

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

Immunogen

E.coli-derived human GCLC recombinant protein (Position: E437-N637). Human GCLC shares 94% amino acid (aa) sequence identity with both mouse and rat GCLC.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins



Storage

At -20°C for one year. After r°Constitution, at 4°C for one month. It°Can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Sequence Similarities

Belongs to the glutamate--cysteine ligase type 3 family.

Anti-GCLC Picoband Antibody - Protein Information

Name GCLC (HGNC:4311)

Synonyms GLCL, GLCLC

Function

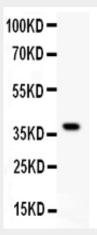
Catalyzes the ATP-dependent ligation of L-glutamate and L- cysteine and participates in the first and rate-limiting step in glutathione biosynthesis.

Anti-GCLC Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

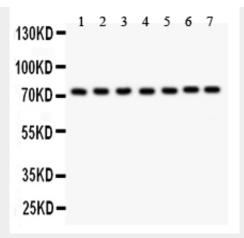
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-GCLC Picoband Antibody - Images

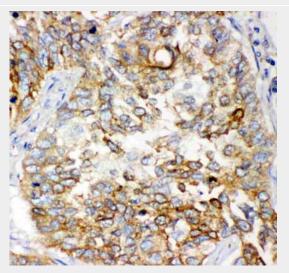


Anti- GCLC antibody, ABO11892, Western blottingAll lanes: Anti GCLC (ABO11892) at 0.5ug/mlWB: Recombinant Human GCLC Protein 0.5ngPredicted bind size: 40KDObserved bind size: 40KD

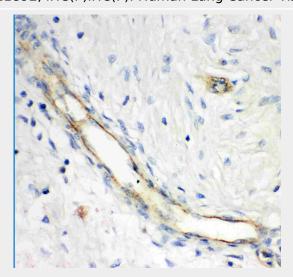




Anti- GCLC antibody, ABO11892, Western blottingAll lanes: Anti GCLC (ABO11892) at 0.5ug/mlLane 1: Rat Brain Tissue Lysate at 50ugLane 2: Rat Cardiac Muscle Tissue Lysate at 50ugLane 3: HELA Cell Lysate at 40ugLane 4: PC-12 Whole Cell Lysate at 40ugLane 5: NRK Whole Cell Lysate at 40ugLane 6: HEPA Whole Cell Lysate at 40ugLane 7: A549 Whole Cell Lysate at 40ugPredicted bind size: 72KDObserved bind size: 72KD



Anti- GCLC antibody, ABO11892, IHC(P)IHC(P): Human Lung Cancer Tissue



Anti- GCLC antibody, ABO11892, IHC(P)IHC(P): Human Mammary Cancer Tissue





Anti-GCLC Picoband Antibody - Background

GCLC, also named 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.