

## GCLC polyclonal antibody (A01)

Catalog # H00002729-A01

Size 50 uL

### Specification

|                                |                                                                                                                 |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------|
| <b>Product Description</b>     | Mouse polyclonal antibody raised against a partial recombinant GCLC.                                            |
| <b>Immunogen</b>               | GCLC (NP_001489, 528 a.a. ~ 637 a.a) partial recombinant protein with GST tag.                                  |
| <b>Sequence</b>                | EGVFPGLIPILNSYLENMEVDVDTRCSILNYLKLKKRASGELMTVARWMREFIANHPDYKQDSVITD<br>EMNYSILKCNQIANELCEPELLGSAFRKVKYSGSKTDSSN |
| <b>Host</b>                    | Mouse                                                                                                           |
| <b>Reactivity</b>              | Human                                                                                                           |
| <b>Quality Control Testing</b> | Antibody Reactive Against Recombinant Protein.                                                                  |
| <b>Storage Buffer</b>          | 50 % glycerol                                                                                                   |
| <b>Storage Instruction</b>     | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.                                        |

### Applications

- ELISA

### Gene Info — GCLC

|                            |                           |
|----------------------------|---------------------------|
| <b>Entrez GeneID</b>       | <a href="#">2729</a>      |
| <b>GeneBank Accession#</b> | <a href="#">NM_001498</a> |
| <b>Protein Accession#</b>  | <a href="#">NP_001489</a> |
| <b>Gene Name</b>           | GCLC                      |
| <b>Gene Alias</b>          | GCS, GLCL, GLCLC          |

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gene Description   | glutamate-cysteine ligase, catalytic subunit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Omim ID            | <a href="#">230450 606857</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Gene Ontology      | <a href="#">Hyperlink</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Gene Summary       | 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. [provided by RefSeq] |
| Other Designations | gamma-glutamylcysteine synthetase                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

## Pathway

- [Glutathione metabolism](#)
- [Metabolic pathways](#)

## Disease

- [Alzheimer disease](#)
- [Atherosclerosis](#)
- [Autonomic Nervous System Diseases](#)
- [Berylliosis](#)
- [Bipolar Disorder](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Chronic Disease](#)
- [Cognition](#)
- [Constriction](#)
- [Coronary Artery Disease](#)
- [Coronary Disease](#)

- [Cystic fibrosis](#)
- [Diabetes Mellitus](#)
- [Fatty Liver](#)
- [Genetic Predisposition to Disease](#)
- [Hypertension](#)
- [Ischemic Attack](#)
- [Kidney Failure](#)
- [Lung Neoplasms](#)
- [Myocardial Infarction](#)
- [Pulmonary Disease](#)
- [Schizophrenia](#)
- [Stroke](#)