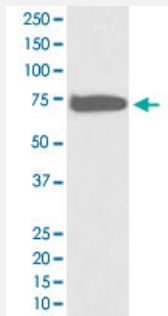


GCLC monoclonal antibody, clone ABBG-7

Catalog # MAB20082 Size 100 uL

Applications



Western Blot (Cell lysate)

Western Blot analysis of HepG2 cell lysate with GCLC monoclonal antibody, clone ABBG-7 (Cat # MAB20082).

Specification

Product Description	Rabbit monoclonal antibody raised against synthetic peptide of human GCLC.
Immunogen	A synthetic peptide corresponding to human GCLC.
Host	Rabbit
Theoretical MW (kDa)	72.766
Reactivity	Human
Form	Liquid
Purification	Affinity purification
Isotype	IgG
Recommend Usage	Western Blot (1:500-1:2000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, 150 mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide).
Storage Instruction	Store at -20°C for one year. After reconstitution, 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.

Note

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western Blot analysis of HepG2 cell lysate with GCLC monoclonal antibody, clone ABBG-7 (Cat # MAB20082).

Gene Info — GCLC

Entrez GeneID [2729](#)

Protein Accession# [P48506](#)

Gene Name GCLC

Gene Alias GCS, GLCL, GLCLC

Gene Description glutamate-cysteine ligase, catalytic subunit

Omim ID [230450 606857](#)

Gene Ontology [Hyperlink](#)

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](#)