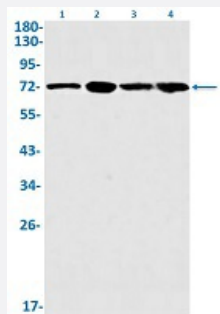


RecomAb™

GCLC recombinant monoclonal antibody, clone R08-2F5

Catalog # RAB02262 Size 100 uL

Applications



Western Blot

Western Blot analysis of Lane 1: rat brain, Lane 2: C6, Lane 3: 3T3 and Lane 4: HeLa lysates with GCLC recombinant monoclonal antibody, clone R08-2F5 (Cat # RAB02262).

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human GCLC.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide corresponding to human GCLC.
Theoretical MW (kDa)	Calculated MW: 73 kD
Reactivity	Mouse, Rat
Form	Liquid
Purification	Affinity purification
Isotype	IgG
Recommend Usage	Immunoprecipitation (1:20) Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 50 mM Tris-Glycine, pH 7.4 (0.15 M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA)

Storage Instruction

Store at -20 °C.
Aliquot to 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

Western Blot analysis of Lane 1: rat brain, Lane 2: C6, Lane 3: 3T3 and Lane 4: Hela lysates with GCLC recombinant monoclonal antibody, clone R08-2F5 (Cat # RAB02262).

- Immunoprecipitation

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](#)