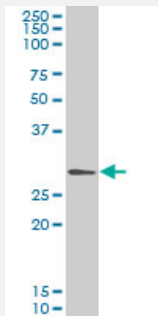


GCLM monoclonal antibody (M01), clone 2B8

Catalog # H00002730-M01

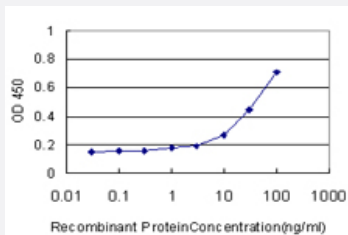
Size 100 ug

Applications



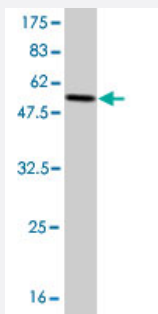
Western Blot (Cell lysate)

GCLM monoclonal antibody (M01), clone 2B8 Western Blot analysis of GCLM expression in HeLa (Cat # L013V1).



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged GCLM is approximately 1ng/ml as a capture antibody.



Western Blot detection against Immunogen (55.88 KDa) .

Specification

Product Description

Mouse monoclonal antibody raised against a full length recombinant GCLM.

Immunogen	GCLM (AAH41809, 1 a.a. ~ 274 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MGTDSTRAAKALLARARTLHLQTGNLLNWGRLRKKCPSTHSEELHDCIQKTLNEWSSQINPDLVRE FPDVLECTVSHAVEKINPDEREEMKVS AKLFIVESNSSSSSTRSAVDMACSVLGVAQLDSVVIASPP IEDGVNLSLEHLQPYWEELENLVQSKKVAIGTSDLDKTQLEQLYQWAQVKPNSNQVNLASCCVM PPDLTAFQAKQFDIQLLTHNDPKELLGASFGQALQESIPDIQAHEWVPLWLLRYSVIVKSRGIKSK GYLQAKRRGS
Host	Mouse
Reactivity	Human
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (55.88 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

GCLM monoclonal antibody (M01), clone 2B8 Western Blot analysis of GCLM expression in HeLa (Cat # L013V1).

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged GCLM is approximately 1ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

Gene Info — GCLM

Entrez GeneID [2730](#)

GeneBank Accession#	BC041809
Protein Accession#	AAH41809
Gene Name	GCLM
Gene Alias	GLCLR
Gene Description	glutamate-cysteine ligase, modifier subunit
Omim ID	601176
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. Gamma glutamylcysteine synthetase deficiency has been implicated in some forms of hemolytic anemia. [provided by RefSeq]
Other Designations	GSC light chain OTTHUMP00000012299 gamma-glutamylcysteine synthetase glutamate-cysteine ligase (gamma-glutamylcysteine synthetase), regulatory (30.8kD) glutamate-cysteine ligase regulatory protein

Publication Reference

- [Protection against 2-chloroethyl ethyl sulfide \(CEES\) - Induced cytotoxicity in human keratinocytes by an inducer of the glutathione detoxification pathway.](#)

Abel EL, Bubel JD, Simper MS, Powell L, McClellan SA, Andreeff M, Macleod MC, Digiovanni J.
Toxicol Appl Pharmacol 2011 Jun; 255:176.

Application: WB-Ce, Human, NCTC 2544 cells
- [Molecular and Functional Characterization of Gastrula Organizer Cells Derived from Human Embryonic Stem Cells.](#)

Sharon N, Mor I, Golan-Lev T, Fainsod A, Benvenisty N.
Stem Cells 2011 Apr; 29(4):600.

Application: IF, Human, Embryoid bodies
- [Diversity in Antioxidant Response Enzymes in Progressive Stages of Human Nonalcoholic Fatty Liver Disease.](#)

Hardwick RN, Fisher CD, Canet MJ, Lake AD, Cherrington NJ.
Drug Metabolism and Disposition 2010 Dec; 38(12):2293.

Application: WB-Ti, Human , Human liver samples

- [Induction of Antioxidant Enzymes by Curcumin and Its Analogues in Human Islets: Implications in Transplantation.](#)

Balamurugan AN, Akhov L, Selvaraj G, Pugazhenth S.

Pancreas 2009 May; 38(4):454.

Application: WB-Ti, Human, Human islets

Pathway

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

Disease

- [Amphetamine-Related Disorders](#)
- [Arsenic Poisoning](#)
- [Asthma](#)
- [Atherosclerosis](#)
- [Berylliosis](#)
- [Bipolar Disorder](#)
- [Cardiovascular Diseases](#)
- [Carotid Artery Diseases](#)
- [Cerebral Infarction](#)
- [Chronic Disease](#)
- [Coronary Artery Disease](#)
- [Coronary Disease](#)
- [Dementia](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [DNA Damage](#)

- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Glomerulonephritis](#)
- [Kidney Failure](#)
- [Lung Neoplasms](#)
- [Mental Status Schedule](#)
- [Metabolic Syndrome X](#)
- [Myocardial Infarction](#)
- [Psychoses](#)
- [Pulmonary Disease](#)
- [Renal Insufficiency](#)
- [Schizophrenia](#)
- [Werner syndrome](#)