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GCLM Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant GCLM.
Catalog # AT2177a

Product Information

Application	WB, E
Primary Accession	P48507
Other Accession	BC041809
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	2B8
Calculated MW	30727

Additional Information

Gene ID	2730
Other Names	Glutamate--cysteine ligase regulatory subunit, GCS light chain, Gamma-ECS regulatory subunit, Gamma-glutamylcysteine synthetase regulatory subunit, Glutamate--cysteine ligase modifier subunit, GCLM, GLCLR
Target/Specificity	GCLM (AAH41809, 1 a.a. ~ 274 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	GCLM Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

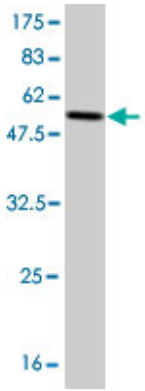
Glutamate-cysteine ligase, also known as gamma-glutamylcysteine synthetase, is the first rate limiting enzyme of glutathione synthesis. The enzyme consists of two subunits, a heavy catalytic subunit and a light regulatory subunit. Gamma glutamylcysteine synthetase deficiency has been implicated in some forms of hemolytic anemia.

References

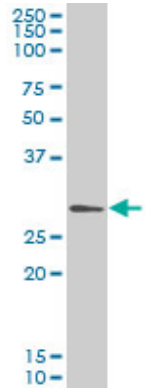
1.Protection against 2-chloroethyl ethyl sulfide (CEES) - Induced cytotoxicity in human keratinocytes by an

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 23. [Epub ahead of print]2.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 Feb 15. doi: 10.1002/stem.621. [Epub ahead of print]3.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 Metab Dispos. 2010 Dec;38(12):2293-301. Epub 2010 Aug 30.4.Induction of Antioxidant Enzymes by Curcumin and Its Analogues in Human Islets: Implications in Transplantation.Balamurugan AN, Akhov L, Selvaraj G, Pugazhenthi S.Pancreas. 2009 May;38(4):454-60.

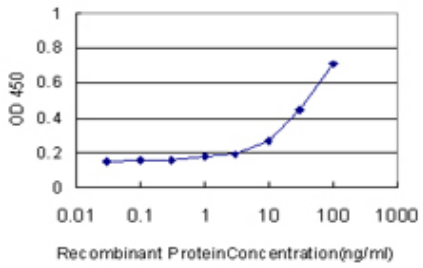
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (55.88 KDa) .



GCLM monoclonal antibody (M01), clone 2B8 Western Blot analysis of GCLM expression in HeLa ((Cat # AT2177a)



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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.