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GCLM Antibody (monoclonal) (M02)

Mouse monoclonal antibody raised against a full-length recombinant GCLM.
Catalog # AT2178a

Product Information

Application	WB
Primary Accession	P48507
Other Accession	BC041809
Reactivity	Human, Rat
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Lambda
Clone Names	2C6
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
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) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

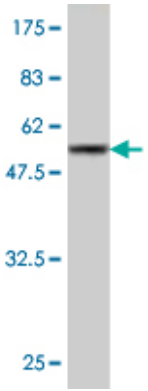
Glutamate-cysteine ligase, also known as gamma-glutamylcysteine synthetase, is the first rate limiting enzyme of glutathione synthesis. The enzyme consists of two subunits, a heavy catalytic subunit and a light regulatory subunit. Gamma glutamylcysteine synthetase deficiency has been implicated in some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

References

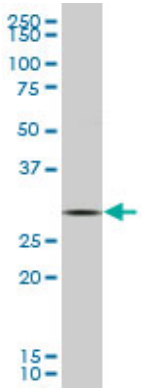
Assessing oxidative pathway genes as risk factors for bipolar disorder. Fullerton JM, et al. Bipolar Disord,

2010 Aug. PMID 20712757.Variation at the NFATC2 Locus Increases the Risk of Thiazolinedinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.Accumulation of gene polymorphisms related to oxidative stress is associated with myocardial infarction in Japanese type 2 diabetic patients. Katakami N, et al. Atherosclerosis, 2010 Jun 12. PMID 20598694.Common polymorphisms in ITGA2, PON1 and THBS2 are associated with coronary atherosclerosis in a candidate gene association study of the Chinese Han population. Wang Y, et al. J Hum Genet, 2010 Aug. PMID 20485444.Glutathione pathway genetic polymorphisms and lung cancer survival after platinum-based chemotherapy. Moyer AM, et al. Cancer Epidemiol Biomarkers Prev, 2010 Mar. PMID 20200426.

Images



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



GCLM monoclonal antibody (M02), clone 2C6. Western Blot analysis of GCLM expression in PC-12 ((Cat # AT2178a)