

Mouse anti-Human GCLM Monoclonal Antibody | anti-GCLM antibody

GCLM antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA48114	Mouse	Human	Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot, ELISA

PRODUCT SYNONYMS

GCLM; Monoclonal Antibody; GCLM antibody; Glutamate-cysteine ligase modifier subunit; Glutamate-cysteine ligase; modifier subunit; GLCLR; anti-GCLM antibody

PRODUCT SPECIFICATIONS

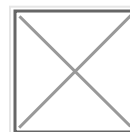
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	AT2D12
Purity/Purification	By protein-G affinity chromatography
Form/Format	Liquid. In phosphate-buffered saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	274
Applicable Applications for anti-GCLM antibody	FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot), ELISA
Antigen Species	Human
Immunogen	Recombinant human GCLM (1-274aa) purified from E. coli
Clone Note	Anti-human GCLM mAb, clone AT2D12, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human GCLM protein.
Preparation and Storage	Can be stored at 4 degree C. For long term storage, aliquot and store at -20 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



IF (Immunofluorescence)

ICC/IF analysis of GCLM in HeLa cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human GCLM antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



WB (Western Blot)

The cell lysates of HeLa (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human GCLM antibody (1:3000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

ADDITIONAL INFORMATION

Related Product Information for anti-GCLM antibody	GCLM (Glutamate-cysteine ligase, modifier subunit), also known as gamma-glutamylcysteine synthetase, is first rate limiting enzyme of glutathione synthesis. GCLM is heterodimer of a heavy catalytic subunit and a light regulatory subunit that is responsive to inflammation, phenolic antioxidants, heat shock, oxidants and cytokines. GCLM deficiency has been implicated in some forms of hemolytic anemia. Also, GCLM is a molecular target for amelioration of cisplatin resistance in lung cancer.
Product Categories/Family for anti-GCLM antibody	Metabolism
References	Dickinson D.A., et al. (2005) Free Radic Biol Med 37 (8): 1152-1159; Inoue Y., et al. (2003) Int J Oncol 23 (5): 1333-1339; Robertson N.G., et al. (1995) Genomics 23 (1): 42-50

NCBI AND UNIPROT INFORMATION

NCBI GI #	4504011
NCBI GeneID	2730
NCBI Accession #	NP_002052
NCBI GenBank Nucleotide #	NM_002061.3
UniProt Accession #	P48507; Q6FHC1; Q9NPX9; Q9NU74; A8K334; D3DT45; M5A959
Molecular Weight	28,135 Da
NCBI Official Full Name	glutamate--cysteine ligase regulatory subunit isoform 1
NCBI Official Synonym Full Names	glutamate-cysteine ligase modifier subunit
NCBI Official Symbol	GCLM
NCBI Official Synonym Symbols	GLCLR
NCBI Protein Information	glutamate--cysteine ligase regulatory subunit
UniProt Protein Name	Glutamate--cysteine ligase regulatory subunit
UniProt Gene Name	GCLM
UniProt Synonym Gene Names	GLCLR

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.