

Human GCLM antibody

Catalog Number: ATGA0229

PRODUCT INFORMATION

Catalog number

ATGA0229

Clone No.

AT2D12

Product type

Monoclonal Antibody

UnitProt No.

P48507

NCBI Accession No.

NP_002052

Alternative Names

Glutamate-cysteine ligase modifier subunit, Glutamate-cysteine ligase, modifier subunit, GLCLR

PRODUCT SPECIFICATION

Antibody Host

Mouse

Reacts With

Human

Concentration

1mg/ml (determined by BCA assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen

Recombinant human GCLM (1-274aa) purified from E. coli

Isotype

IgG1 kappa

Purification Note

By protein-G affinity chromatography

Application

ELISA, WB, ICC/IF

Usage

The antibody has been tested by ELISA, Western blot and ICC/IF analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

Storage

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Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

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.

General References

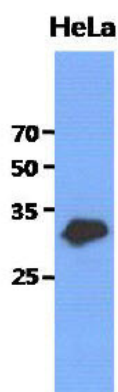
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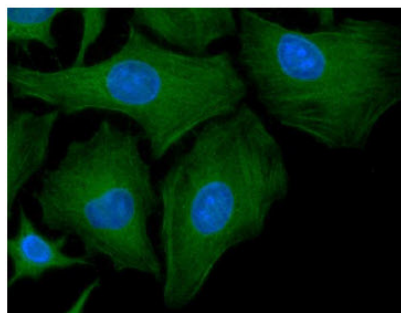
DATA

Western blot analysis (WB)



The cell lysate of HeLa (40ug) was 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.

Immunocytochemistry/Immunofluorescence (ICC/IF)



ICC/IF analysis of GCLM in HeLa cells. The cell was stained with ATGA0229 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).