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

lsotype

lgG1 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

For research use only. This product is not intended or approved for human, diagnostics or veterinary use. Website: www.nkmaxbio.com email: supportbio@nkmax.com



NKMAXBiO We support you, we believe in your research Human GCLM antibody Catalog Number: ATGA0229

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 restance in lung cancer.

General 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.

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).

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