NKMAXBio we support you, we believe in your research Human Glutathione Synthetase/GSS antibody Catalog Number: ATGA0422

PRODUCT INFORMATION

Catalog number ATGA0422

Clone No. AT12F2

Product type Monoclonal Antibody

UnitProt No. P48637

NCBI Accession No. NP_000169

Alternative Names Glutathione synthetase, GSHS, GSH synthetase

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 GSS (1-474aa) purified from E. coli

Isotype

lgG1 kappa

Purification Note By protein-A affinity chromatography

Application

ELISA, WB, ICC/IF

Usage

The antibody has been tested by ELISA, Western blot analysis and ICC/IF 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



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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

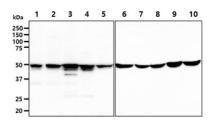
Glutathione synthetase, also known GSS, is the second enzyme in the glutathione biosynthesis pathway. It catalyses the condensation of gamma-glutamylcysteine and glycine, to form glutathione. Defects in GSS are the cause of glutathione synthetase deficiency (GSS deficiency) ; also known as 5-oxoprolinuria or pyroglutamic aciduria. It is a severe form characterized by an increased rate of hemolysis and defective function of the central nervous system.

General References

Polekhina G., et al. (1999) EMBO J. 18: 3204-3213. Huang Z A., et al. (2000) Biochim Biophys Acta. 1493: 48-55.

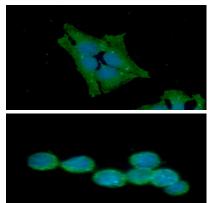
DATA

Western blot analysis (WB)



The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human GSS antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1.: MDA-MB231 cell lysate Lane 2.: WiDr cell lysate Lane 3.: SW480 cell lysate Lane 3.: SW480 cell lysate Lane 4.: A427 cell lysate Lane 5.: MCF7 cell lysate Lane 6.: 293T cell lysate Lane 7.: HeLa cell lysate Lane 8.: HT1080 cell lysate Lane 9.: U87MG cell lysate Lane 10.: A549 cell lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)



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

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

