

Human Glutathione S-transferase theta 1/GSTT1 antibody

Catalog Number: ATGA0371

PRODUCT INFORMATION

Catalog number

ATGA0371

Clone No.

AT38D11

Product type

Monoclonal Antibody

UnitProt No.

P30711

NCBI Accession No.

AAH07065

Alternative Names

Glutathione S-transferase theta 1, GSTT1, GST class-theta-1, Glutathione transferase T1-1, Glutathione S-transferase theta 1 EC 2.5.1.18, Glutathione S transferase 5, Glutathione S transferase theta 1, GST class theta 1, Glutathione transferase T1 1, GST 5 5, GST CL1

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 GSTT1 (1-240aa) purified from E. coli

Isotype

IgG2b kappa

Purification Note

By protein-A affinity chromatography

Application

ELISA, WB, ICC/IF, FACS

Usage

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

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Storage

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 S-transferase theta 1 (GSTT1) is a member of a superfamily of proteins that catalyze the conjugation of reduced glutathione to a variety of electrophilic and hydrophobic compounds. Human GSTs can be divided into five main classes (alpha, mu, pi, theta, and zeta). The theta class includes GSTT1 and GSTT2. The GSTT1 and GSTT2 share 55% amino acid sequence identity and both of them were claimed to have an important role in human carcinogenesis. The GSTT1 gene is located approximately 50kb away from the GSTT2 gene. The GSTT1 and GSTT2 genes have a similar structure, being composed of five exons with identical exon/intron boundaries.

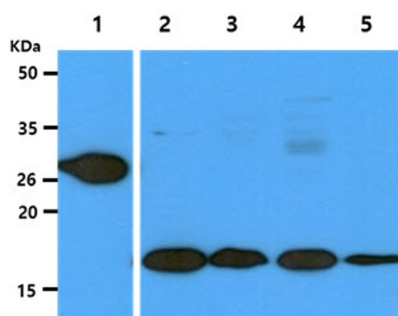
General References

Webb G., et al. (1996) Genomics. 33(1): 121-123.

Mainwaring GW., et al. (1996) Biochem J. 318: 297-303.

DATA

Western blot analysis (WB)



The recombinant protein (50ng), cell lysates(40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human GSTT1 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: Recombinant human GSTT1 protein

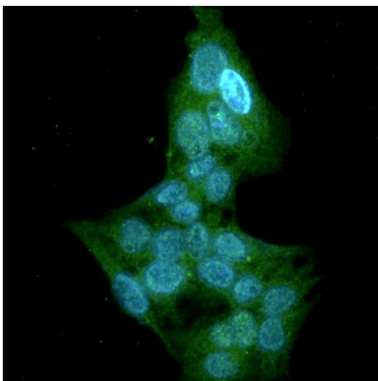
Lane 2.: HeLa cell lysate

Lane 3.: 293T cell lysate

Lane 4.: Jurkat cell lysate

Lane 5.: HL-60 cell lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)



ICC/IF analysis of GSTT1 in HepG2 cells. The cell was stained with ATGA0371 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

Flow cytometry (FACS)

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Flow cytometry analysis of GSTT1 in Hep3B cells. The cell was stained with ATGA0371 at 2-5ug for 1×10^6 cells (red). A Goat anti mouse IgG (Alexa fluor 488) was used as the secondary antibody. Mouse monoclonal IgG was used as the isotype control (dark gray), cells without incubation with primary and secondary antibody was used as the negative control (light gray).

