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# **Human Glutathione S-transferase theta 2/GSTT2 antibody**

Catalog Number: ATGA0391

## **PRODUCT INFORMATION**

## Catalog number

ATGA0391

#### Clone No.

AT10H4

## **Product type**

Monoclonal Antibody

#### UnitProt No.

P0CG29

#### **NCBI Accession No.**

NP 000845

#### **Alternative Names**

Glutathione S-transferase theta 2, GSTT2B

## **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 GSTT2 (1-244aa) 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 analysis, Flow cytometry and ICC/IF 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**

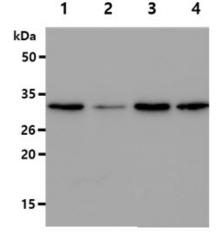
Glutathione S-transferase theta-2 (GSTT2) is an enzyme catalyze the conjugation of reduced glutathione to a variety of electrophilic and hydrophobic compounds. Human GSTs can be divided into five main classes: Alpha, Mu, Pi, Theta, and Zeta. The theta class members GSTT1 and GSTT2 share 55% amino acid sequence identity and both are thought to have an important role in human carcinogenesis.

### **General References**

Hussey AJ., et al. (1992) Biochem J. 286(3): 929-935. Whittington AT., et al. (1996) Genomics. 33(1): 105-111. Webb G., et al. (1996) Genomics. 33(1): 121-123.

## **DATA**

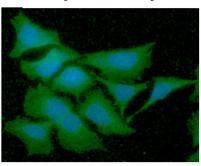
## Western blot analysis (WB)



The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human GSTT2 antibody (1:500). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: HepG2 cell lysate Lane 2.: NIH/3T3 cell lysate Lane 3.: A549 cell lysate Lane 4.: Raw264.7 cell lysate

## Immunocytochemistry/Immunofluorescence (ICC/IF)

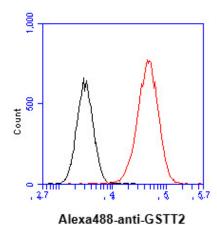


ICC/IF analysis of GSTT2 in HeLa cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human GSTT2 antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).

Flow cytometry (FACS)

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Flow cytometry analysis of GSTT2 in HeLa cell line, staining at 2-5ug for  $1 \times 106$ cells (red line). The secondary antibody used goat antimouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).

