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## Human Glutathione S-transferase pi 1/GSTP1 antibody

Catalog Number: ATGA0498

## **PRODUCT INFORMATION**

### Catalog number

ATGA0498

#### Clone No.

AT12C10

#### **Product type**

Monoclonal Antibody

#### UnitProt No.

P09211

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

NP 000843

#### **Alternative Names**

Glutathione S-transferase P, DFN7, FAEES3, GST3, PI, Glutathione S-transferase P Fatty Acid Ethyl Ester Synthase III, Glutathione S Transferase Pi, GSTP1, Glutathione S-Transferase pi 1

## **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 GSTP1 (1-210aa) purified from E.coli.

## Isotype

IgG1 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

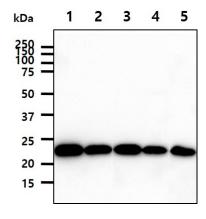
GSTP1 is a glutathione S-transferase that belongs to the pi class. This enzyme acts by catalyzing the reaction of glutathione with an acceptor molecule to form an S-substituted glutathione (S=sulfur). The reactions utilizing glutathione contribute the transformation of a wide variety of electrophiles, including reactive products of lipid, protein, carcinogens, therapeutic drugs, environmental toxins, and products of oxidative stress.

#### **General References**

Lee KA, et al. (2001) Blood. 98(12): 3483-5. Hayes JD, et al. (1995) Crit Rev BiochemMol Biol. 30(6): 445-600.

### **DATA**

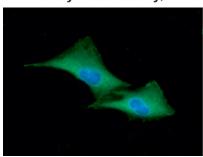
## Western blot analysis (WB)



The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human GSTP1 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: K562 cell lysate Lane 2.: Jurkat cell lysate Lane 3.: HeLa cell lysate Lane 4.: 293T cell lysate Lane 5.: A549 cell lysate

## Immunocytochemistry/Immunofluorescence (ICC/IF)



Flow cytometry (FACS)

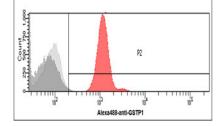
ICC/IF analysis of GSTP1 in A549 cells. The cell was stained with ATGA0498 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).



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Flow cytometry analysis of GSTP1 in K562 cell line. The cell was stained with ATGA0498 at 2-5ug for 1x10^6cells (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).

