

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, FAES3, 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.

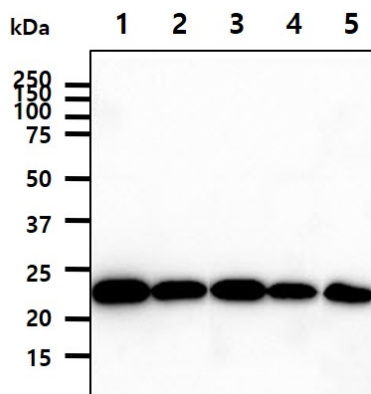
General References

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

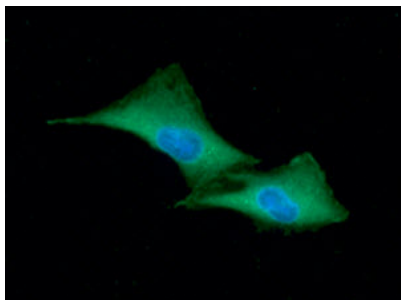
Lane 2.: Jurkat cell lysate

Lane 3.: HeLa cell lysate

Lane 4.: 293T cell lysate

Lane 5.: A549 cell lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)

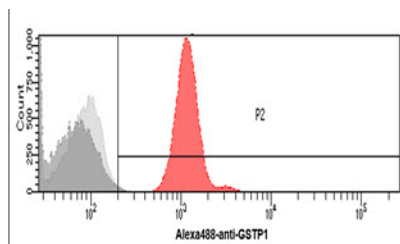


ICC/IF analysis of GSTP1 in A549 cells. The cell was stained with ATGA0498 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

Flow cytometry (FACS)

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Flow cytometry analysis of GSTP1 in K562 cell line. The cell was stained with ATGA0498 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).