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# GSTM1 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AW5170

## Product Information

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| **Application** | FC, IHC-P, WB |
| **Primary Accession** | P09488 |
| **Reactivity** | Human |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 25712 |
| **Isotype** | Rabbit IgG |
| **Antigen Source** | HUMAN |

## Additional Information

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| **Gene ID** | 2944 |
| **Antigen Region** | 184-211 |
| **Other Names** | GSTM1; GST1; Glutathione S-transferase Mu 1; GST HB subunit 4; GST class-mu 1; GSTM1-1; GSTM1a-1a; GSTM1b-1b; GTH4 |
| **Dilution** | FC~~1:10~50 IHC-P~~1:100~500 WB~~1:1000 |
| **Target/Specificity** | This GSTM1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 184-211 amino acids from the C-terminal region of human GSTM1. |
| **Format** | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification. |
| **Storage** | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| **Precautions** | GSTM1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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| **Name** | GSTM1 ( HGNC:4632) |
| **Synonyms** | GST1 |
| **Function** | Conjugation of reduced glutathione to a wide number of exogenous and |

endogenous hydrophobic electrophiles. Involved in the formation of glutathione conjugates of both prostaglandin A2 (PGA2) and prostaglandin J2 (PGJ2) (PubMed:9084911). Participates in the formation of novel hepoxilin regioisomers (PubMed:21046276).

**Cellular Location** Cytoplasm.

**Tissue Location** Liver (at protein level).

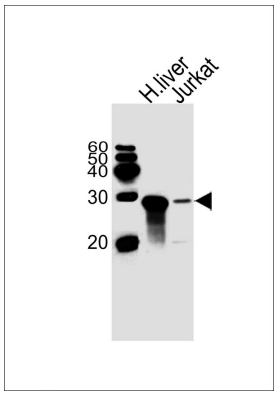
## Background

GSTM1 is a glutathione S-transferase that belongs to the mu class. The mu class of enzymes functions in the detoxification of electrophilic compounds, including carcinogens, therapeutic drugs, environmental toxins and products of oxidative stress, by conjugation with glutathione. The mu class of enzymes are organized in a gene cluster on chromosome 1p13.3 and are known to be highly polymorphic. These genetic variations can change an individual's susceptibility to carcinogens and toxins as well as affect the toxicity and efficacy of certain drugs.

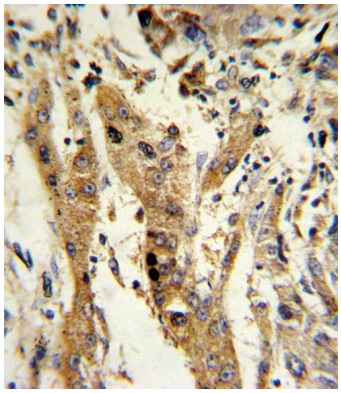
## References

Kostrykina,N.A., et.al., Bull. Exp. Biol. Med. 148 (1), 89-93 (2009)

## Images

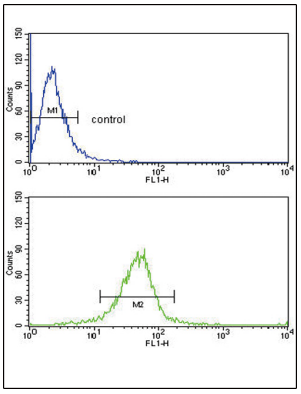



Western blot analysis of lysates from huamn liver tissue,Jurkat cell line (from left to right), using GSTM1 Antibody (C-term)(Cat. #AW5170). AW5170 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody.



Formalin-fixed and paraffin-embedded human hepatocarcinoma reacted with GSTM1 Antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

GSTM1 Antibody (C-term) (Cat. #AW5170) flow cytometric analysis of MDA-MB231 cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.




Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.