

GSTM5 monoclonal antibody (M02A), clone 1G4

Catalog # H00002949-M02A

Size 200 uL

Specification

| | |
|-------------------------|--|
| Product Description | Mouse monoclonal antibody raised against a partial recombinant GSTM5. |
| Immunogen | GSTM5 (NP_000842, 145 a.a. ~ 218 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. |
| Sequence | RPWFAGDKITFVDFLAYDVLDMKRIFEPKCLDAFLNLKDFISRFEGLKKISAYMKSSQFLRGLLFGK SATWNSK |
| Host | Mouse |
| Reactivity | Human |
| Isotype | IgG1 Kappa |
| Quality Control Testing | Antibody Reactive Against Recombinant Protein. |
| Storage Buffer | In ascites fluid |
| Storage Instruction | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing. |

Applications

- ELISA

Gene Info — GSTM5

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|---------------------|---------------------------|
| Entrez GeneID | 2949 |
| GeneBank Accession# | NM_000851 |
| Protein Accession# | NP_000842 |
| Gene Name | GSTM5 |

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|--------------------|--|
| Gene Alias | GSTM5-5, GTM5 |
| Gene Description | glutathione S-transferase mu 5 |
| Omim ID | 138385 |
| Gene Ontology | Hyperlink |
| Gene Summary | <p>Cytosolic and membrane-bound forms of glutathione S-transferase are encoded by two distinct supergene families. At present, eight distinct classes of the soluble cytoplasmic mammalian glutathione S-transferases have been identified: alpha, kappa, mu, omega, pi, sigma, theta and zeta. This gene encodes 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 genes encoding 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. Diversification of these genes has occurred in regions encoding substrate-binding domains, as well as in tissue expression patterns, to accommodate an increasing number of foreign compounds. [provided by RefSeq]</p> |
| Other Designations | GST class-mu 5 OTTHUMP00000013359 S-(hydroxyalkyl)glutathione lyase M5 glutathione S-alkyl transferase M5 glutathione S-alkyltransferase M5 glutathione S-aryltransferase M5 glutathione S-transferase M5 |

Pathway

- [Drug metabolism - cytochrome P450](#)
- [Glutathione metabolism](#)
- [Metabolism of xenobiotics by cytochrome P450](#)

Disease

- [Alzheimer disease](#)
- [Breast Neoplasms](#)
- [Cognition](#)
- [Coronary Artery Disease](#)
- [Coronary Disease](#)
- [Genetic Predisposition to Disease](#)

- [Head and Neck Neoplasms](#)
- [Hypertension](#)
- [Lung Neoplasms](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Prenatal Exposure Delayed Effects](#)