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	RPWFAGDKITFVDFLAYDVLDMKRIFEPKCLDAFLNLKDFISRFEGLKKISAYMKSSQFLRGLLFGKSATWNSK
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

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

Gene Alias	GSTM5-5, GTM5
Gene Description	glutathione S-transferase mu 5
Omim ID	138385
Gene Ontology	Hyperlink
Gene Summary	Cytosolic and membrane-bound forms of glutathione S-transferase are encoded by two distinct s upergene families. At present, eight distinct classes of the soluble cytoplasmic mammalian glutath ione S-transferases have been identified: alpha, kappa, mu, omega, pi, sigma, theta and zeta. Thi s gene encodes a glutathione S-transferase that belongs to the mu class. The mu class of enzyme s functions in the detoxification of electrophilic compounds, including carcinogens, therapeutic dru gs, environmental toxins and products of oxidative stress, by conjugation with glutathione. The gen es encoding the mu class of enzymes are organized in a gene cluster on chromosome 1p13.3 an d are known to be highly polymorphic. These genetic variations can change an individual's suscep tibility to carcinogens and toxins as well as affect the toxicity and efficacy of certain drugs. Diversif ication 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. [provid ed by RefSeq
Other Designations	GST class-mu 5|OTTHUMP00000013359|S-(hydroxyalkyl)glutathione lyase M5|glutathione S-alkyl transferase M5|glutathione S-aralkyltransferase 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