GSTM5 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	GSTM5, Monoclonal Antibody
Full Product Name	GSTM5 (Glutathione S-Transferase mu 5, GSTM5-5, GTM5) (MaxLight 490)
Product Gene Name	anti-GSTM5 antibody
Product Synonym Names	Glutathione S-Transferase mu 5; GSTM5-5; GTM5
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	1G4
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified
Specificity	Recognizes GSTM5.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	28.2kDa (242aa) confirmed by MALDI-TOF
OMIM	138385
3D Structure	ModBase 3D Structure for P46439
Immunogen	GSTM5 (NP_000842, 145aa-218aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	RPWFAGDKITFVDFLAYDVLDMKRIFEPKCLDAFLNLKDFISRFEGLKKISAYMKSSQFLRGLLFGKSATWNSK
Conjugate	MaxLight490
Product Categories/Family for anti-GSTM5 antibody	Antibodies; Epitope Tags
Applications Tested/Suitable for anti-GSTM5 antibody	FLISA
Application Notes for anti-GSTM5 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-GSTM5 antibody	MaxLight490 is a new Blue-Green photostable dye conjugate comparable to DyLight488, Alexa Fluor488 and offers better labeling efficiency, brighter imaging and increased immunodetection. Absorbance (491nm); Emission (515nm); Extinction Coefficient 73,000.
Other Notes	Small volumes of anti-GSTM5 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for GSTM5 purchase	MBS6206509 is an antibody targeting GSTM5. Also known as GSTM5 (Glutathione S-Transferase mu 5, GSTM5-5, GTM5) (MaxLight 490). Host: Mouse.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GSTM5. It may not necessarily be applicable to this product.

NCBI GI #	23065563
NCBI GeneID	2949
NCBI Accession #	NP_000842
UniProt Primary Accession #	P46439
UniProt Secondary Accession #	Q6PD78; A8K0V8
UniProt Related Accession #	P46439
GenBank Nucleotide #	NM_000851.3
NCBI Official Full Name	glutathione S-transferase Mu 5
NCBI Official Synonym Full Names	glutathione S-transferase mu 5
NCBI Official Symbol	GSTM5
NCBI Official Synonym Symbols	GTM5; GSTM5-5
UniProt Protein Name	Glutathione S-transferase Mu 5
UniProt Synonym Protein Names	GST class-mu 5; GSTM5-5
Protein Family	Glutathione S-transferase
UniProt Gene Name	GSTM5
UniProt Entry Name	GSTM5_HUMAN
NCBI Protein Information	glutathione S-transferase Mu 5
NCBI Summary for GSTM5	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, Jul 2008]
UniProt Comments for GSTM5	GSTM5: Conjugation of reduced glutathione to a wide number of exogenous and endogenous hydrophobic electrophiles. Belongs to the GST superfamily. Mu family. Protein type: Transferase; Other Amino Acids Metabolism - glutathione; Xenobiotic Metabolism - metabolism by cytochrome P450; Xenobiotic Metabolism - drug metabolism - cytochrome P450; EC 2.5.1.18 Chromosomal Location of Human Ortholog: 1p13.3 Cellular Component: cytosol Molecular Function: glutathione transferase activity Biological Process: glutathione metabolic process; xenobiotic metabolic process
Research Articles on GSTM5	**1.** Genomic polymorphisms of GSTM1 and GSTM5 do not significantly affect the peripheral blood leukocyte mRNA levels.

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