GSTM3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	GSTM3, Polyclonal Antibody
Full Product Name	GSTM3 Polyclonal Antibody
Product Gene Name	anti-GSTM3 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	PBS with 0.02% sodium azide, 50% glycerol, pH 7.3.
Purity/Purification	Affinity Purification
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	26kDa
OMIM	138390
3D Structure	ModBase 3D Structure for P21266
Immunogen	Recombinant protein of human GSTM3 (NP_000840.2).
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-GSTM3 antibody	Immunofluorescence (IF)
Application Notes for anti-GSTM3 antibody	IF: 1:50-1:200
Related Product Information for anti-GSTM3 antibody	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. Mutations of this class mu gene have been linked with a slight increase in a number of cancers, likely due to exposure with environmental toxins. Alternative splicing results in multiple transcript variants.
Other Notes	Small volumes of anti-GSTM3 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 GSTM3 purchase	MBS8569746 is an antibody targeting GSTM3. Also known as GSTM3 Polyclonal Antibody. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GSTM3. It may not necessarily be applicable to this product.

NCBI GI #	21264423

NCBI GeneID	2947
NCBI Accession #	P21266.3
UniProt Primary Accession #	P21266
UniProt Related Accession #	P21266
NCBI Official Full Name	Glutathione S-transferase Mu 3
NCBI Official Synonym Full Names	glutathione S-transferase mu 3
NCBI Official Symbol	GSTM3
NCBI Official Synonym Symbols	GST5; GSTB; GTM3; GSTM3-3
UniProt Protein Name	Glutathione S-transferase Mu 3
UniProt Synonym Protein Names	GST class-mu 3; GSTM3-3; hGSTM3-3
Protein Family	Glutathione S-transferase
UniProt Gene Name	GSTM3
UniProt Synonym Gene Names	GST5; hGSTM3-3
UniProt Entry Name	GSTM3_HUMAN
NCBI Protein Information	glutathione S-transferase Mu 3
UniProt Comments for GSTM3	GSTM3: Conjugation of reduced glutathione to a wide number of exogenous and endogenous hydrophobic electrophiles. May govern uptake and detoxification of both endogenous compounds and xenobiotics at the testis and brain blood barriers. Belongs to the GST superfamily. Mu family. Protein type: Transferase; Other Amino Acids Metabolism - glutathione; Xenobiotic Metabolism - drug metabolism - cytochrome P450; Cell development/differentiation; Xenobiotic Metabolism - metabolism by cytochrome P450; EC 2.5.1.18 Chromosomal Location of Human Ortholog: 1p13.3 Cellular Component: cytoplasm; cytosol; nucleus Molecular Function: identical protein binding; protein homodimerization activity; enzyme binding; glutathione binding; glutathione transferase activity Biological Process: glutathione metabolic process; establishment of blood-nerve barrier; nitrobenzene metabolic process; response to estrogen stimulus; xenobiotic metabolic process; xenobiotic catabolic process
Research Articles on GSTM3	**1.** ROS production is one mechanism by which cancer drugs kill tumour cells, and according to our evidence, GSTM3 may play an important role in preventing breast cancer treatment-induced cellular cytotoxicity
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