GSTM3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	GSTM3, Polyclonal Antibody
Full Product Name	GSTM3 Antibody, HRP conjugated
Product Gene Name	anti-GSTM3 antibody
Product Synonym Names	Glutathione S-transferase Mu 3; GST class-mu 3; GSTM3-3; hGSTM3-3; GSTM3; GST5
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	>95%, Protein G purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: GSTM3 (MBS7048329) HRP Conjugated Antibody: GSTM3 (MBS7048330)
Molecular Weight	26,560 Da
OMIM	J05459 mRNA
3D Structure	ModBase 3D Structure for P21266
Immunogen	Recombinant human Glutathione S-transferase Mu 3 protein (1-225AA)
Preservative	0.03% Proclin 300
Constituents	50% Glycerol, 0.01M PBS, PH 7.4
Conjugation	HRP
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-133642
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-GSTM3 antibody	ELISA (EIA)
Related Product Information for anti-GSTM3 antibody	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.
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	MBS7048330 is an antibody targeting GSTM3. Also known as GSTM3 Antibody, HRP conjugated. 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 #	23065552
NCBI GeneID	2947
NCBI Accession #	NP_000840.2
UniProt Primary Accession #	P21266
UniProt Secondary Accession #	O60550; Q96HA3
UniProt Related Accession #	P21266
GenBank Nucleotide #	NM_000849.4
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
NCBI Summary for GSTM3	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. [provided by RefSeq, Nov 2008]
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: Cell development/differentiation; EC 2.5.1.18; Other Amino Acids Metabolism - glutathione; Transferase; Xenobiotic Metabolism - drug metabolism - cytochrome P450; Xenobiotic Metabolism - metabolism by cytochrome P450 Chromosomal Location of Human Ortholog: 1p13.3 Cellular Component: cytoplasm; cytosol; nucleus Molecular Function: enzyme binding; glutathione binding; glutathione transferase activity; identical protein binding; protein homodimerization activity Biological Process: establishment of blood-nerve barrier; glutathione metabolic process; nitrobenzene metabolic process; response to estrogen stimulus; xenobiotic catabolic process
Research Articles on GSTM3	**1.** This meta-analysis suggested that the GSTT1 and GSTM3 polymorphisms might influence osteosarcoma risk.

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