G-Biosciences Image not found or type unknown

Immunotag™ MGST1 Polyclonal Antibody

Antibody Specification

Catalog No.	ITT2751
Product Description	Immunotag™ MGST1 Polyclonal Antibody
Size	50 µg, 100 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	MGST1
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,ELISA
Recommended Dilution	Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications.
Concentration	1 mg/ml
Reactive Species	Human
Host Species	Rabbit
Immunogen	The antiserum was produced against synthesized peptide derived from human MGST1. AA range:42-91
Specificity	MGST1 Polyclonal Antibody detects endogenous levels of MGST1 protein.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen
Form	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Gene Name	MGST1
Accession No.	P10620 Q91VS7
Alternate Names	MGST1; GST12; MGST; Microsomal glutathione S-transferase 1; Microsomal GST-1; Microsomal GST-I

Antibody Specification

Description	microsomal glutathione S-transferase 1(MGST1) Homo sapiens The MAPEG (Membrane Associated Proteins in Eicosanoid and Glutathione metabolism) family consists of six human proteins, two of which are involved in the production of leukotrienes and prostaglandin E, important mediators of inflammation. Other family members, demonstrating glutathione S-transferase and peroxidase activities, are involved in cellular defense against toxic, carcinogenic, and pharmacologically active electrophilic compounds. This gene encodes a protein that catalyzes the conjugation of glutathione to electrophiles and the reduction of lipid hydroperoxides. This protein is localized to the endoplasmic reticulum and outer mitochondrial membrane where it is thought to protect these membranes from oxidative stress. Several transcript variants, some non-protein coding and some protein coding, have been found for this gene. [provided by RefSeq, May 2012],
Cell Pathway/ Category	Glutathione metabolism,Metabolism of xenobiotics by cytochrome P450,Drug metabolism,
Protein Expression	Foreskin,Liver,Prostate,
Subcellular Localization	nucleus,mitochondrion,mitochondrial outer membrane,mitochondrial inner membrane,peroxisomal membrane,endoplasmic reticulum,endoplasmic reticulum membrane,integral component of membrane,apical part of cell,
Protein Function	catalytic activity:RX + glutathione = HX + R-S-glutathione.,enzyme regulation:Activated by N-ethylmaleimide, except in the testis.,function:Conjugation of reduced glutathione to a wide number of exogenous and endogenous hydrophobic electrophiles. Has a wide substrate specificity.,similarity:Belongs to the MAPEG family.,subunit:Homotrimer.,tissue specificity:Highly expressed in liver.,
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.