

## Recombinant Human MGST1 cell lysate

Cat. No. MGST1-1110HCL Lot. No. (See product label)

### SPECIFICATION

<b>Species</b>	Human
<b>Description</b>	<p>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. Four transcript variants of this gene encode one protein isoform.</p>
<b>Size</b>	100 ul
<b>Storage Buffer</b>	1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)
<b>Applications</b>	Western Blot;

### GENE INFORMATION

<b>Gene Name</b>	MGST1 microsomal glutathione S-transferase 1 [ Homo sapiens ]
<b>Official Symbol</b>	MGST1

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<b>Synonyms</b>	MGST1; microsomal glutathione S-transferase 1; GST12; MGST I; microsomal GST-1; microsomal GST-I; glutathione S-transferase 12; MGST; MGST-I; MGC14525;
<b>Gene ID</b>	<a href="#">4257</a>
<b>mRNA Refseq</b>	<a href="#">NM_020300</a>
<b>Protein Refseq</b>	<a href="#">NP_064696</a>
<b>MIM</b>	<a href="#">138330</a>
<b>UniProt ID</b>	<a href="#">P10620</a>
<b>Chromosome Location</b>	12p12.3-p12.1
<b>Pathway</b>	Biological oxidations, organism-specific biosystem; Drug metabolism - cytochrome P450, organism-specific biosystem; Drug metabolism - cytochrome P450, conserved biosystem; Glutathione conjugation, organism-specific biosystem; Glutathione metabolism, organism-specific biosystem; Glutathione metabolism, conserved biosystem; Metabolism, organism-specific biosystem;
<b>Function</b>	glutathione binding; glutathione transferase activity; protein binding; protein homodimerization activity; transferase activity;

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