Recombinant Human MGST1 cell lysate

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

SPECIFICATION

Product Overview	
Species	Human
Description	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.
Size	100 ul
Storage Buffer	1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)
Applications	Western Blot;

GENE INFORMATION

Gene Name	MGST1 microsomal glutathione S-transferase 1 [Homo sapiens]

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Official Symbol	MGST1
Synonyms	MGST1; microsomal glutathione S-transferase 1; GST12; MGST I; microsomal GST-1; microsomal GST-I; glutathione S-transferase 12; MGST; MGST-I; MGC14525;
Gene ID	4257
mRNA Refseq	NM_020300
Protein Refseq	NP_064696
MIM	138330
UniProt ID	P10620
Chromosome Location	12p12.3-p12.1
Pathway	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;
Function	glutathione binding; glutathione transferase activity; protein binding; protein homodimerization activity; transferase activity;

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