



Rabbit Anti-MGST1 antibody

SL10447R

Product Name:	MGST1
Chinese Name:	微粒体谷胱甘肽S转移酶1抗体
Alias:	MGST1; Glutathione S transferase 12; Microsomal glutathione transferase 1; GST12; MGST 1; MGST; MGST1; MGST1_HUMAN; Microsomal glutathione S-transferase 1; Microsomal GST 1; Microsomal GST-1; Microsomal GST-I.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,Sheep,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	17kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human MGST1:21-100/155
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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]

Function:

Conjugation of reduced glutathione to a wide number of exogenous and endogenous hydrophobic electrophiles. Has a wide substrate specificity.

Subcellular Location:

Microsome. Mitochondrion outer membrane. Endoplasmic reticulum membrane.

Tissue Specificity:

Highly expressed in liver.

Post-translational modifications:

Peroxynitrite induces nitration at Tyr-93 which activates the enzyme.

Similarity:

Belongs to the MAPEG family.

SWISS:

P10620

Gene ID:

4257

Database links:

[Entrez Gene: 4257](#)Human

[Entrez Gene: 56615](#)Mouse

[Entrez Gene: 171341](#)Rat

[Omir: 138330](#)Human

[SwissProt: P10620](#)Human

[SwissProt: Q91VS7](#)Mouse

[SwissProt: P08011](#)Rat

[Unigene: 389700](#)Human

[Unigene: 14796](#)Mouse

[Unigene: 2580](#)Rat

	<p>Important Note:</p>
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This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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