

**MGST2 Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP51791**

**Specification**

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**MGST2 Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">O99735</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	17 KDa
Antigen Region	1 - 60

**MGST2 Antibody - Additional Information**

**Gene ID** 4258

**Other Names**

Microsomal glutathione S-transferase 2, Microsomal GST-2, Microsomal GST-II, MGST2, GST2

**Target/Specificity**

KLH conjugated synthetic peptide derived from human MGST2

**Dilution**

WB~~ 1:1000

**Format**

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

**Storage**

Store at -20 °C. Stable for 12 months from date of receipt

**MGST2 Antibody - Protein Information**

**Name** MGST2

**Synonyms** GST2

**Function**

Catalyzes several different glutathione-dependent reactions (PubMed: [23409838](http://www.uniprot.org/citations/23409838), PubMed: [26066610](http://www.uniprot.org/citations/26066610), PubMed: [26656251](http://www.uniprot.org/citations/26656251), PubMed: [8703034](http://www.uniprot.org/citations/8703034), PubMed: [9278457](http://www.uniprot.org/citations/9278457)). Catalyzes the glutathione-dependent reduction of lipid hydroperoxides, such as 5-HPETE (PubMed: [23409838](http://www.uniprot.org/citations/23409838), PubMed: [23409838](http://www.uniprot.org/citations/23409838)).

href="http://www.uniprot.org/citations/9278457" target="\_blank">9278457</a>). Has glutathione transferase activity, toward xenobiotic electrophiles, such as 1-chloro-2, 4-dinitrobenzene (CDNB) (PubMed:<a href="http://www.uniprot.org/citations/23409838" target="\_blank">23409838</a>, PubMed:<a href="http://www.uniprot.org/citations/8703034" target="\_blank">8703034</a>). Catalyzes also the conjugation of leukotriene A4 with reduced glutathione to form leukotriene C4 (LTC4) (PubMed:<a href="http://www.uniprot.org/citations/23409838" target="\_blank">23409838</a>, PubMed:<a href="http://www.uniprot.org/citations/26656251" target="\_blank">26656251</a>). Involved in oxidative DNA damage induced by ER stress and anticancer agents by activating LTC4 biosynthetic machinery in nonimmune cells (PubMed:<a href="http://www.uniprot.org/citations/26656251" target="\_blank">26656251</a>).

#### Cellular Location

Endoplasmic reticulum membrane; Multi-pass membrane protein. Microsome membrane; Multi-pass membrane protein

#### Tissue Location

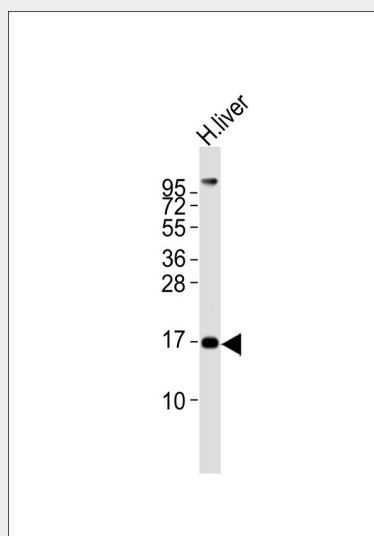
Liver, spleen, skeletal muscle, heart, adrenals, pancreas, prostate, testis, fetal liver, and fetal spleen. Very low expression in lung, brain, placenta and bone marrow (PubMed:8703034) Abundantly expressed in human umbilical vein endothelial cells (at protein level) (PubMed:11322876).

### MGST2 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### MGST2 Antibody - Images



Anti-MGST2 Antibody at 1:1000 dilution + human liver lysates Lysates/proteins at 20 µg per lane.

Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 17 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

### **MGST2 Antibody - Background**

Can catalyze the production of LTC<sub>4</sub> from LTA<sub>4</sub> and reduced glutathione. Can catalyze the conjugation of 1-chloro-2,4- dinitrobenzene with reduced glutathione.

### **MGST2 Antibody - References**

Jakobsson P.-J., et al. *J. Biol. Chem.* 271:22203-22210(1996).  
Ebert L., et al. Submitted (MAY-2004) to the EMBL/GenBank/DDBJ databases.  
Hillier L.W., et al. *Nature* 434:724-731(2005).  
Burkard T.R., et al. *BMC Syst. Biol.* 5:17-17(2011).