

**MGST1 Antibody (Center)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP2750c**

**Specification**

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**MGST1 Antibody (Center) - Product Information**

Application	WB,E
Primary Accession	<a href="#">P10620</a>
Other Accession	<a href="#">Q64L89</a>
Reactivity	Human
Predicted	Bovine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	17599
Antigen Region	40-71

**MGST1 Antibody (Center) - Additional Information**

**Gene ID** 4257

**Other Names**

Microsomal glutathione S-transferase 1, Microsomal GST-1, Microsomal GST-I, MGST1, GST12, MGST

**Target/Specificity**

This MGST1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 40-71 amino acids from the Central region of human MGST1.

**Dilution**

WB~~1:4000

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

MGST1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**MGST1 Antibody (Center) - Protein Information**

**Name** MGST1

### Synonyms GST12, MGST

**Function** Conjugation of reduced glutathione to a wide number of exogenous and endogenous hydrophobic electrophiles.

### Cellular Location

Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:P08011}; Multi-pass membrane protein. Mitochondrion outer membrane {ECO:0000250|UniProtKB:P08011}

### Tissue Location

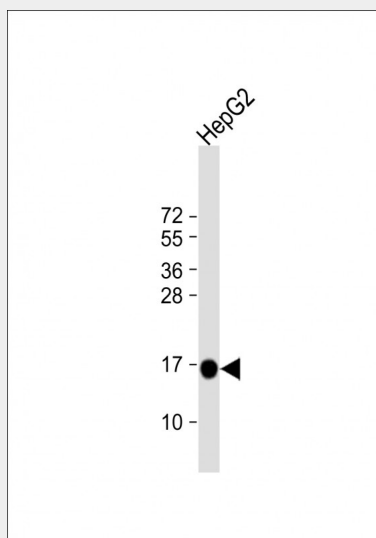
Highly expressed in liver.

## MGST1 Antibody (Center) - 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](#)

## MGST1 Antibody (Center) - Images



Anti-MGST1 Antibody (Center) at 1:4000 dilution + HepG2 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 18 kDa Blocking/Dilution buffer: 5% NFDN/TBST.

## MGST1 Antibody (Center) - Background

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.

#### **MGST1 Antibody (Center) - References**

- Zhang, H., Int J Colorectal Dis 22 (10), 1185-1194 (2007)  
Prall, W.C., Mech. Ageing Dev. 128 (9), 503-510 (2007)  
Haines, J.L., Invest. Ophthalmol. Vis. Sci. 47 (1), 329-335 (2006)