

MGST1 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP2750c**Specification**

MGST1 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [P10620](#)**MGST1 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 4257**Other Names**

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

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP2750c](/products/AP2750c) was selected from the Center region of human MGST1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

MGST1 Antibody (Center) Blocking Peptide - 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) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

MGST1 Antibody (Center) Blocking Peptide - Images

MGST1 Antibody (Center) Blocking Peptide - 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) Blocking Peptide - 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)