

Anti-MGST1 Picoband Antibody
Catalog # ABO12409**Specification**

Anti-MGST1 Picoband Antibody - Product Information

Application	WB
Primary Accession	P10620
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Microsomal glutathione S-transferase 1(MGST1) detection. Tested with WB in Human;Mouse;Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-MGST1 Picoband Antibody - Additional Information

Gene ID 4257

Other Names

Microsomal glutathione S-transferase 1, Microsomal GST-1, 2.5.1.18, Microsomal GST-I, MGST1, GST12, MGST

Calculated MW

17599 MW KDa

Application Details

Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat

Subcellular Localization

Microsome . Mitochondrion outer membrane ; Peripheral membrane protein . Endoplasmic reticulum membrane ; Multi-pass membrane protein .

Tissue Specificity

Highly expressed in liver.

Protein Name

Microsomal glutathione S-transferase 1

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg NaN₃.

Immunogen

A synthetic peptide corresponding to a sequence at the N-terminus of human MGST1 (42-75aa KVFANPEDCVAFGKGENAKKYLRRTDDRVERVRRRA), different from the related mouse sequence by six amino acids, and from the related rat sequence by five amino acids.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins.

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Anti-MGST1 Picoband Antibody - 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}

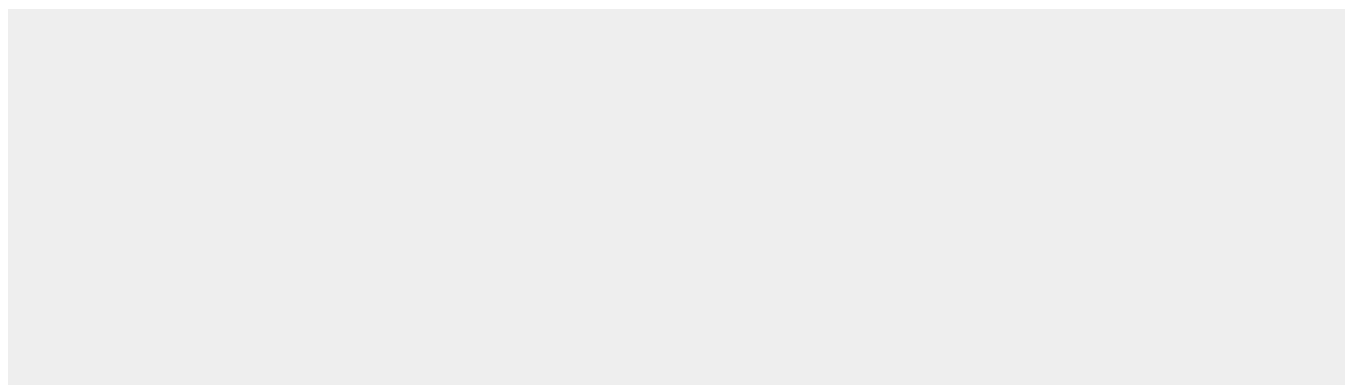
Tissue Location

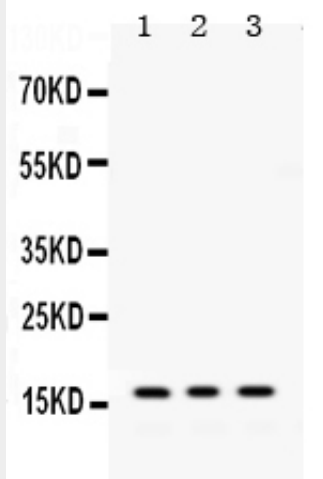
Highly expressed in liver.

Anti-MGST1 Picoband 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](#)

Anti-MGST1 Picoband Antibody - Images



Anti- MGST1 Picoband antibody, ABO12409, Western blotting All lanes: Anti MGST1 (ABO12409) at 0.5ug/ml Lane 1: Rat Liver Tissue Lysate at 50ug Lane 2: Mouse Liver Tissue Lysate at 50ug Lane 3: HEPG2 Whole Cell Lysate at 40ug Predicted bind size: 17KD Observed bind size: 17KD

Anti-MGST1 Picoband Antibody - Background

Microsomal glutathione S-transferase 1 is an enzyme that in humans is encoded by the MGST1 gene. 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.