

Anti-MGST1 Picoband Antibody

Catalog # ABO12409

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.

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
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.
Source	Eukaryota
Protein Name	Microsomal glutathione S-transferase 1
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Na ₃ N.
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human MGST1 (42-75aa KVFANPEDCVAFGKGENAKKYLRTDDRVERVRRRA), 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.

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.

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.

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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.