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MGST1 Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP2750c

Product Information

Application	WB, E
Primary Accession	P10620
Other Accession	Q64L89
Reactivity	Human
Predicted	Bovine, Rat, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB15082
Calculated MW	17599
Antigen Region	40-71

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~~1:1000 E~~Use at an assay dependent concentration.
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.

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.

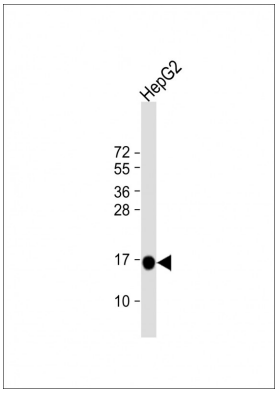
Background

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.

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)

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% NFDM/TBST.

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