Product Name: MGST1 Rabbit Polyclonal Antibody
Catalog #: APRab13873
For research use only.

Summary

Description	Rabbit polyclonal Antibody
Host	Rabbit
Application	WB,IHC
Reactivity	Human,Mouse
Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2000,IHC 1:50-1:300
Molecular Weight	18kDa

Antigen Information

Gene Name	MGST1
Alternative Names	MGST1; GST12; MGST; Microsomal glutathione S-transferase 1; Microsomal GST-1; Microsomal GST-I
Gene ID	4257.0
SwissProt ID	P10620
Immunogen	The antiserum was produced against synthesized peptide derived from human MGST1. AA range:42-91

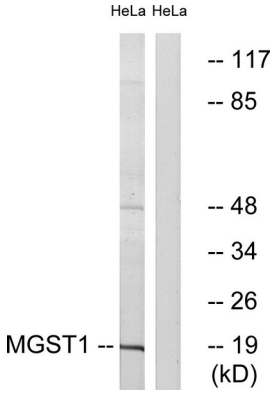
Background

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. Several transcript variants, some non-protein coding and some protein coding, have been found for this gene. [provided by RefSeq, May 2012],catalytic activity:RX + glutathione = HX + R-S-glutathione.,enzyme regulation:Activated by N-ethylmaleimide, except in the testis.,function:Conjugation of reduced glutathione to a wide number of exogenous and endogenous hydrophobic electrophiles. Has a wide substrate specificity.,similarity:Belongs to the MAPEG family.,subunit:Homotrimer.,tissue specificity:Highly expressed in liver.,

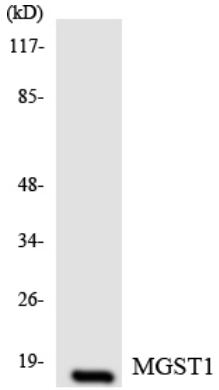
Research Area

Glutathione metabolism;Metabolism of xenobiotics by cytochrome P450;Drug metabolism;

Image Data



Western blot analysis of lysates from HeLa cells, using MGST1 Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from RAW264.7cells using MGST1 antibody.