

ARG59037 anti-MGST1 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes MGST1
Tested Reactivity	Hu, Ms, Rat
Tested Application	WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	MGST1
Species	Human
Immunogen	Synthetic peptide corresponding to aa. 42-75 of Human MGST1 (KVFANPEDCVAFGKGGENAKKYLRTDDRVERVRRRA).
Conjugation	Un-conjugated
Alternate Names	Microsomal GST-1; EC 2.5.1.18; Microsomal glutathione S-transferase 1; MGST; MGST-I; Microsomal GST-I; GST12

Application Instructions

Application table	Application	Dilution
	WB	0.1 - 0.5 µg/ml
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.2% Na ₂ HPO ₄ , 0.9% NaCl, 0.05% Sodium azide and 5% BSA.
Preservative	0.05% Sodium azide
Stabilizer	5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	MGST1
Gene Full Name	microsomal glutathione S-transferase 1
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]
Function	Conjugation of reduced glutathione to a wide number of exogenous and endogenous hydrophobic electrophiles. Has a wide substrate specificity. [UniProt]
Calculated Mw	18 kDa
PTM	Peroxynitrite induces nitration at Tyr-93 which activates the enzyme. [UniProt]
Cellular Localization	Microsome. Mitochondrion outer membrane; Peripheral membrane protein. Endoplasmic reticulum membrane; Multi-pass membrane protein. [UniProt]

Images



ARG59037 anti-MGST1 antibody WB image

Western blot: 50 µg of Rat liver, 50 µg of Mouse liver and 40 µg of HepG2 lysates stained with ARG59037 anti-MGST1 antibody at 0.5 µg/ml dilution.