

Product datasheet

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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

(KVFANPEDCVAFGKGENAKKYLRTDDRVERVRRA).

Conjugation Un-conjugated

Alternate Names Microsomal GST-1; EC 2.5.1.18; Microsomal glutathione S-transferase 1; 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% Na2HPO4, 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]

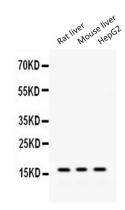
Calculated Mw 18 kDa

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 $\mu g/ml$ dilution.