

MGST2 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP8876b

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	Q99735
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB17141
Calculated MW	16621
Antigen Region	117-147

Additional Information

Gene ID	4258
Other Names	Microsomal glutathione S-transferase 2, Microsomal GST-2, Microsomal GST-II, MGST2, GST2
Target/Specificity	This MGST2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 117-147 amino acids from the C-terminal region of human MGST2.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 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	MGST2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	MGST2
Synonyms	GST2
Function	Catalyzes several different glutathione-dependent reactions

(PubMed:[23409838](#), PubMed:[26066610](#), PubMed:[26656251](#), PubMed:[8703034](#), PubMed:[9278457](#)). Catalyzes the glutathione-dependent reduction of lipid hydroperoxides, such as 5-HPETE (PubMed:[23409838](#), PubMed:[9278457](#)). Has glutathione transferase activity, toward xenobiotic electrophiles, such as 1-chloro-2, 4-dinitrobenzene (CDNB) (PubMed:[23409838](#), PubMed:[8703034](#)). Also catalyzes the conjugation of leukotriene A4 with reduced glutathione to form leukotriene C4 (LTC4) (PubMed:[23409838](#), PubMed:[26656251](#)). Involved in oxidative DNA damage induced by ER stress and anticancer agents by activating LTC4 biosynthetic machinery in nonimmune cells (PubMed:[26656251](#)).

Cellular Location	Endoplasmic reticulum membrane; Multi-pass membrane protein. Microsome membrane; Multi- pass membrane protein
Tissue Location	Liver, spleen, skeletal muscle, heart, adrenals, pancreas, prostate, testis, fetal liver, and fetal spleen. Very low expression in lung, brain, placenta and bone marrow (PubMed:8703034) Abundantly expressed in human umbilical vein endothelial cells (at protein level) (PubMed:11322876).

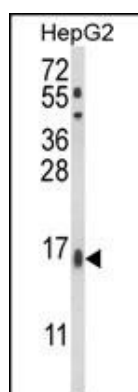
Background

The MAPEG (Membrane Associated Proteins in Eicosanoid and Glutathione metabolism) family consists of six human proteins, several of which are involved in the production of leukotrienes and prostaglandin E, important mediators of inflammation. MGST2 is a protein which catalyzes the conjugation of leukotriene A4 and reduced glutathione to produce leukotriene C4.

References

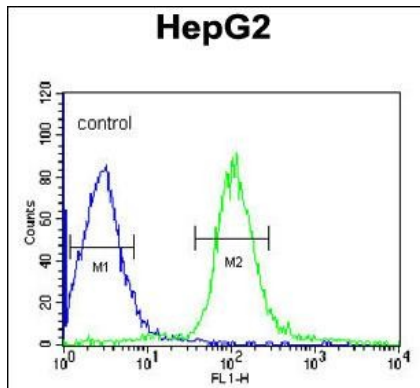
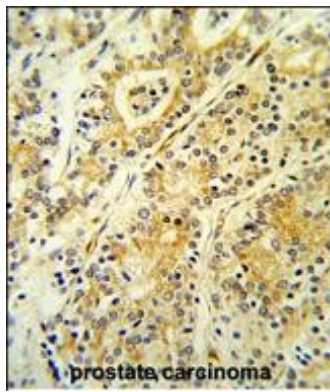
Jakobsson,P.J., et.al., Am. J. Respir. Crit. Care Med. 161 (2 PT 2), S20-S24 (2000)
Sjostrom,M., et.al., Eur. J. Biochem. 268 (9), 2578-2586 (2001)

Images



Western blot analysis of MGST2 Antibody (C-term) (Cat. #AP8876b) in HepG2 cell line lysates (35ug/lane). MGST2 (arrow) was detected using the purified Pab.

Formalin-fixed and paraffin-embedded human prostate carcinoma reacted with MGST2 Antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



MGST2 Antibody (C-term) (Cat. #AP8876b) flow cytometric analysis of HepG2 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

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