10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

MGST2 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP8876b

Specification

MGST2 Antibody (C-term) - Product Information

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

MGST2 Antibody (C-term) - 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~~1:50~100
FC~~1:10~50

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.

MGST2 Antibody (C-term) - Protein Information

Name MGST2

Synonyms GST2

Function Catalyzes several different glutathione-dependent reactions (PubMed:8703034, PubMed:9278457, PubMed:23409838, PubMed:26656251, PubMed:26066610). Catalyzes the glutathione-dependent reduction of lipid hydroperoxides, such as 5-HPETE (PubMed:9278457, PubMed:23409838). Has glutathione transferase activity, toward xenobiotic electrophiles, such as 1-chloro-2, 4-dinitrobenzene (CDNB) (PubMed:23409838, PubMed:8703034). Catalyzes also 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

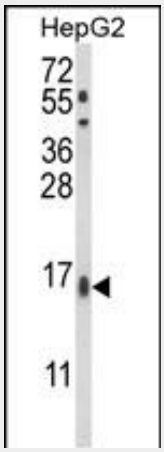
Tissue Location
Liver, spleen, skeletal muscle, heart, adrenals, pancreas, prostate, testis, fetal liver, and fetal spleen. Very low expression in lung, brain, placenta and bone marrow (PubMed:8703034) Abundantly expressed in human umbilical vein endothelial cells (at protein level) (PubMed:11322876).

MGST2 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

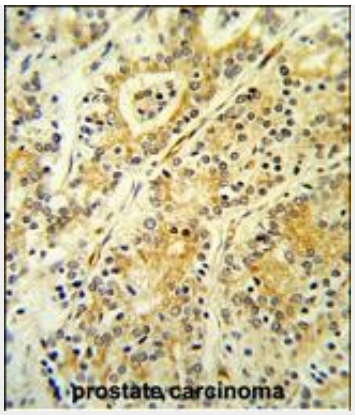
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

MGST2 Antibody (C-term) - Images

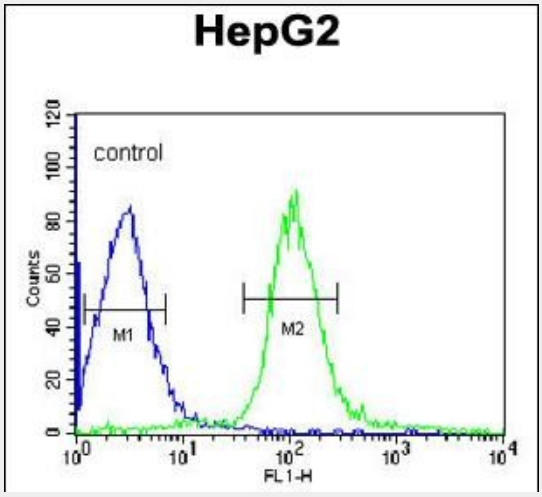


Western blot analysis of MGST2 Antibody (C-term) (Cat. #AP8876b) in HepG2 cell line lysates (35ug/lane). MGST2 (arrow) was detected using the purified Pab.

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999



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.

MGST2 Antibody (C-term) - 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.

MGST2 Antibody (C-term) - 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)