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MGST2 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP8876a

Specification

MGST2 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession Q99735

MGST2 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 4258

Other Names
Microsomal glutathione S-transferase 2, Microsomal GST-2, Microsomal GST-II, MGST2, GST2

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP8876a was selected from the N-term region of human MGST2. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

MGST2 Antibody (N-term) Blocking Peptide - 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 (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides

MGST2 Antibody (N-term) Blocking Peptide - Images

MGST2 Antibody (N-term) Blocking Peptide - 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 (N-term) Blocking Peptide - 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)