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Anti-MGST2 Antibody

Catalog # AP51791

Product Information

Application	WB
Primary Accession	Q99735
Reactivity	Human, Mouse, Rat, Mk
Host	Rabbit
Clonality	Polyclonal
Calculated MW	16621

Additional Information

Gene ID	4258
Other Names	GST2; Microsomal glutathione S-transferase 2; Microsomal GST-2; Microsomal GST-II
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human MGST2. The exact sequence is proprietary.
Dilution	WB~~ 1:1000
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

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

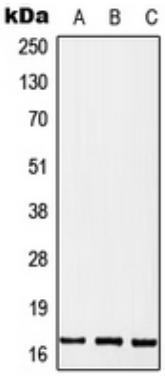
Tissue Location

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).

References

Jakobsson P.-J.,et al.J. Biol. Chem. 271:22203-22210(1996).
Ebert L.,et al.Submitted (MAY-2004) to the EMBL/GenBank/DDBJ databases.
Hillier L.W.,et al.Nature 434:724-731(2005).
Burkard T.R.,et al.BMC Syst. Biol. 5:17-17(2011).

Images



Western blot analysis of MGST2 expression in MCF7 (A), SP2/0 (B), PC12 (C) whole cell lysates. (Predicted band size: 16 kD; Observed band size: 17 kD)

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