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Datasheet

MGST1 polyclonal antibody

Catalog Number: PAB2597

Regulatory Status: For research use only (RUO)

Product Description: Rabbit polyclonal antibody raised against synthetic peptide of MGST1.

Immunogen: A synthetic peptide (conjugated with KLH) corresponding to internal region of human MGST1.

Host: Rabbit

Reactivity: Human

Applications: WB-Ce
(See our web site product page for detailed applications information)

Protocols: See our web site at http://www.abnova.com/support/protocols.asp or product page for detailed protocols

Form: Liquid

Purification: Ammonium sulfate precipitation

Recommend Usage: Western Blot (1:1000)
The optimal working dilution should be determined by the end user.

Storage Buffer: In PBS (0.09% sodium azide)

Storage Instruction: Store at 4°C. For long term storage store at -20°C.
Aliquot to avoid repeated freezing and thawing.

Entrez GeneID: 4257

Gene Symbol: MGST1

Gene Alias: GST12, MGC14525, MGST, MGST-I

Gene Summary: 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. Four transcript variants of this gene encode one protein isoform. [provided by RefSeq]

References:

1. Age-related transcription levels of KU70, MGST1 and BIK in CD34+ hematopoietic stem and progenitor cells. Prall WC, Czibere A, Jager M, Spentzos D, Libermann TA, Gattermann N, Haas R, Aivado M. Mech Ageing Dev. 2007 Sep;128(9):503-10. Epub 2007 Jul 4.
2. Microsomal glutathione S-transferase gene polymorphisms and colorectal cancer risk in a Han Chinese population. Zhang H, Liao LH, Liu SM, Lau KW, Lai AK, Zhang JH, Wang Q, Chen XQ, Wei W, Liu H, Cai JH, Lung ML, Tai SS, Wu M. Int J Colorectal Dis. 2007 Oct;22(10):1185-94. Epub 2007 May 5.
3. Functional candidate genes in age-related macular degeneration: significant association with VEGF, VLDLR, and LRP6. Haines JL, Schnetz-Boutaud N, Schmidt S, Scott WK, Agarwal A, Postel EA, Olson L, Kenealy SJ, Hauser M, Gilbert JR, Pericak-Vance MA. Invest Ophthalmol Vis Sci. 2006 Jan;47(1):329-35.