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MGST3 Rabbit mAb

Catalog # AP75717

Product Information

Application	WB, IHC-P, IP
Primary Accession	O14880
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Monoclonal Antibody
Isotype	IgG
Conjugate	Unconjugated
Purification	Affinity Purified
Calculated MW	16516

Additional Information

Gene ID	4259
Other Names	MGST3
Dilution	WB~~1:1000-1:5000 IHC-P~~N/A IP~~1:20
Format	Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Protein Information

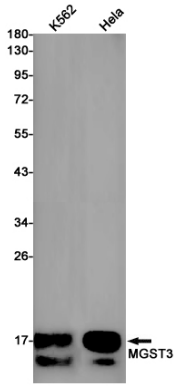
Name	MGST3 (HGNC:7064)
Function	Displays both glutathione S-transferase and glutathione peroxidase activities toward oxyeicosanoids, as part of cellular detoxification as well as synthesis of bioactive metabolites (PubMed:36370807, PubMed:9278457). Catalyzes conjugate addition of reduced glutathione to the alpha, beta-unsaturated C=C carbonyl group of eisosanoids such as leukotriene A4 and 15-deoxy-Delta12,14- prostaglandin J2 to form GSH adducts relevant to the inflammatory response (PubMed:36370807, PubMed:9278457). Catalyzes glutathione- dependent reduction of eicosanoid peroxides to yield the corresponding eicosanoid hydroxides (PubMed:9278457).
Cellular Location	Mitochondrion outer membrane; Multi-pass membrane protein
Tissue Location	Predominantly expressed in heart, skeletal muscle, and adrenal cortex. Also found in brain, placenta, liver, kidney, pancreas, thyroid, testis and ovary. Almost absent in lung, thymus and peripheral blood leukocytes. Expressed in

mast cells

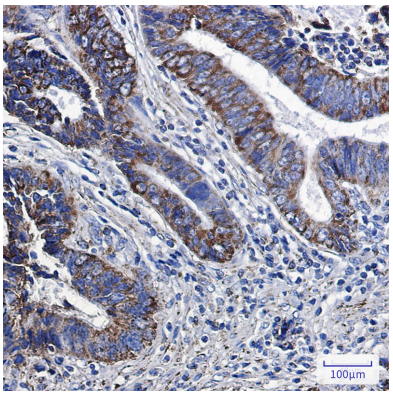
Background

This gene encodes a member of the MAPEG (Membrane Associated Proteins in Eicosanoid and Glutathione metabolism) protein family. Members of this family are involved in the production of leukotrienes and prostaglandin E, important mediators of inflammation. This gene encodes an enzyme which catalyzes the conjugation of leukotriene A4 and reduced glutathione to produce leukotriene C4. This enzyme also demonstrates glutathione-dependent peroxidase activity towards lipid hydroperoxides.

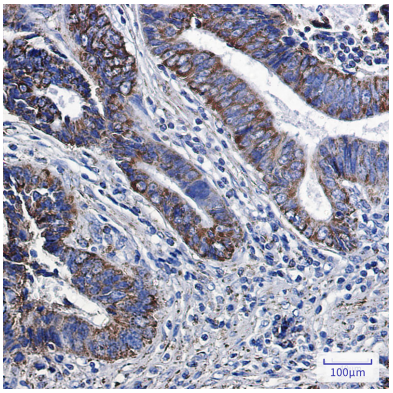
Images



Western blot analysis of MGST3 in K562, Hela lysates using MGST3 antibody.



Immunohistochemistry analysis of paraffin-embedded Human colon cancer using MGST3 antibody.High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.



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