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GSTA1 Antibody

Purified Mouse Monoclonal Antibody (Mab)
Catalog # AM8713b

Product Information

Application	WB, E
Primary Accession	P08263
Reactivity	Human, Rat, Mouse
Predicted	Human
Host	Mouse
Clonality	monoclonal
Isotype	IgG1,κ
Clone Names	2128CT386.77.4
Calculated MW	25631

Additional Information

Gene ID	2938
Other Names	Glutathione S-transferase A1, 2.5.1.18, GST HA subunit 1, GST class-alpha member 1, GST-epsilon, GSTA1-1, GTH1, Glutathione S-transferase A1, N-terminally processed, GSTA1
Target/Specificity	This GSTA1 antibody is generated from a mouse immunized with a recombiant protein from the human region of human GSTA1.
Dilution	WB~~1:5000 E~~Use at an assay dependent concentration.
Format	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, 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	GSTA1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	GSTA1
Function	Glutathione S-transferase that catalyzes the nucleophilic attack of the sulfur atom of glutathione on the electrophilic groups of a wide range of exogenous and endogenous compounds (Probable). Involved in the formation of glutathione conjugates of both prostaglandin A2 (PGA2) and prostaglandin J2

(PGJ2) (PubMed:9084911). It also catalyzes the isomerization of D5-androstene-3,17-dione (AD) into D4-androstene- 3,17-dione and may therefore play an important role in hormone biosynthesis (PubMed:11152686). Through its glutathione-dependent peroxidase activity toward the fatty acid hydroperoxide (13S)-hydroperoxy-(9Z,11E)-octadecadienoate/13-HPODE it is also involved in the metabolism of oxidized linoleic acid (PubMed:16624487).

Cellular Location Cytoplasm.

Tissue Location Liver.

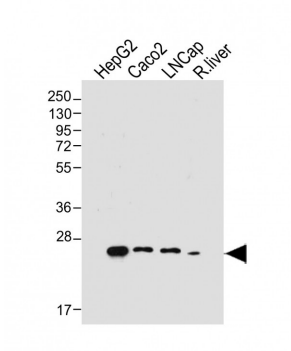
Background

Conjugation of reduced glutathione to a wide number of exogenous and endogenous hydrophobic electrophiles.

References

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Rhoads D.M.,et al.Biochem. Biophys. Res. Commun. 145:474-481(1987).
Tu C.-P.D.,et al.Biochem. Soc. Trans. 15:734-736(1987).
Board P.G.,et al.Proc. Natl. Acad. Sci. U.S.A. 84:2377-2381(1987).
Rozen F.,et al.Arch. Biochem. Biophys. 292:589-593(1992).

Images



All lanes : Anti-GSTA1 Antibody at 1:5000 dilution Lane 1: HepG2 whole cell lysate Lane 2: Caco2 whole cell lysate Lane 3: LNCap whole cell lysate Lane 4: Rat liver tissue lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 26 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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