

**GSTA1 Antibody**  
**Purified Mouse Monoclonal Antibody (Mab)**  
**Catalog # AM8713b**

**Specification**

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**GSTA1 Antibody - Product Information**

Application	WB,E
Primary Accession	<a href="#">P08263</a>
Reactivity	Human, Rat
Predicted	Human
Host	Mouse
Clonality	monoclonal
Isotype	IgG1, $\kappa$
Calculated MW	25631

**GSTA1 Antibody - 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 recombinant protein from the human region of human GSTA1.

**Dilution**

WB~~1:5000

**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.

**GSTA1 Antibody - 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

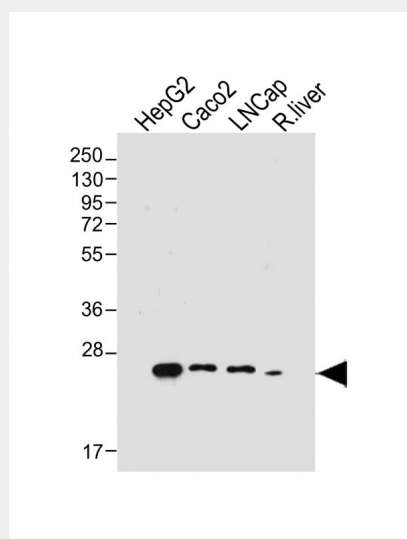
Liver.

### GSTA1 Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### GSTA1 Antibody - 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.

### GSTA1 Antibody - Background

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

### **GSTA1 Antibody - References**

- Tu C.-P.D.,et al.Biochem. Biophys. Res. Commun. 141:229-237(1986).  
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).