

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

GSTA1 Antibody - Product Information

| | |
|-------------------|---------------------------------|
| Application | WB,E |
| Primary Accession | P08263 |
| Reactivity | Human, Rat |
| Predicted | Human |
| Host | Mouse |
| Clonality | monoclonal |
| Isotype | IgG1,κ |
| 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

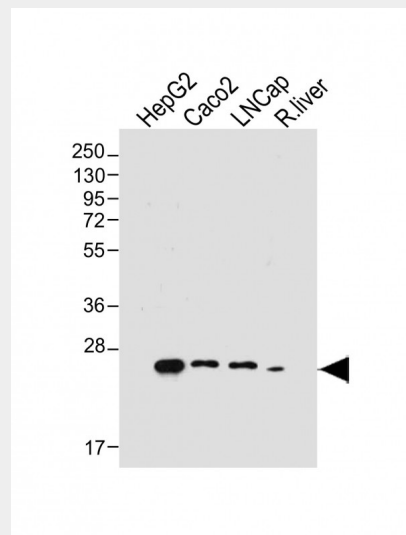
Liver.

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).