

GSTA1 Antibody
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP8697a**Specification**

GSTA1 Antibody - Product Information

Application	WB,E
Primary Accession	P08263
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG

GSTA1 Antibody - Additional Information**Gene ID** 2938**Other Names**

Glutathione S-transferase A1, 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 rabbits immunized with GSTA1 recombinant protein.

Dilution

WB~~1:4000

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

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.

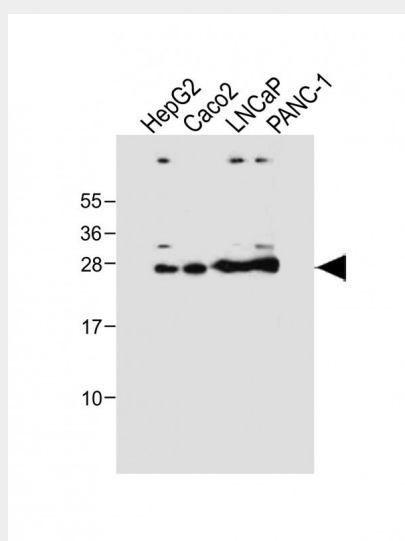
Tissue Location

Liver.

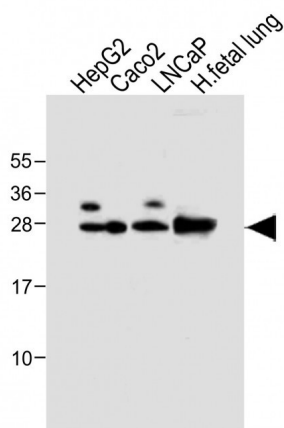
GSTA1 Antibody - Protocols

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 1:4000 dilution Lane 1: HepG2 whole cell lysate Lane 2: Caco2 whole cell lysate Lane 3: LNCaP whole cell lysate Lane 4: PANC-1 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 26 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



All lanes : Anti-GSTA1 Antibody at 1:4000 dilution Lane 1: HepG2 whole cell lysate Lane 2: Caco2 whole cell lysate Lane 3: LNCaP whole cell lysate Lane 4: Human fetal lung tissue lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 26 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

GSTA1 Antibody - Background

Cytosolic and membrane-bound forms of glutathione S-transferase are encoded by two distinct supergene families. These enzymes function in the detoxification of electrophilic compounds, including carcinogens, therapeutic drugs, environmental toxins and products of oxidative stress, by conjugation with glutathione.

GSTA1 Antibody - References

Bogaards,J.J., et.al., Biochem. J. 286 (PT 2), 383-388 (1992)
Mikhal'chik,E.V., et.al., Bull. Exp. Biol. Med. 147 (6), 753-756 (2009)