Datasheet for ABIN2856555

anti-GSTA1 antibody

4 Images

Go to Product page

Overview

Quantity:	100 µL
Target:	GSTA1
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GSTA1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunocytochemistry (ICC), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	Recombinant protein corresponding to human GSTA1
Isotype:	IgG
Specificity:	Based on sequence homology, this antibody may cross react with other GSTA family members.
Cross-Reactivity:	Human, Mouse
Characteristics:	Rabbit Polyclonal antibody to GSTA1 (glutathione S-transferase alpha 1) GSTA1 antibody
Purification:	Affinity purified by Protein A.

Target Details

Target:	GSTA1

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Target Details

Alternative Name:	glutathione S-transferase alpha 1 (GSTA1 Products)
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. The genes encoding these enzymes are known to be highly polymorphic. These genetic variations can change an individual's susceptibility to carcinogens and toxins as well as affect the toxicity and efficacy of some drugs. At present, eight distinct classes of the soluble cytoplasmic mammalian glutathione S-transferases have been identified: alpha, kappa, mu, omega, pi, sigma, theta and zeta. This gene encodes a glutathione S-tranferase belonging to the alpha class. The alpha class genes, located in a cluster mapped to chromosome 6, are the most abundantly expressed glutathione S-transferases in liver. In addition to metabolizing bilirubin and certain anti-cancer drugs in the liver, the alpha class of these enzymes exhibit glutathione peroxidase activity thereby protecting the cells from reactive oxygen species and the products of peroxidation. Cellular Localization: Cytoplasm
Molecular Weight:	26 kDa
Gene ID:	2938
UniProt:	P08263

Application Details

Application Notes:	WB: 1:1000-1:10000. ICC/IF: 1:100-1:1000. IHC-P: 1:100-1:1000. Optimal dilutions/concentrations should be determined by the researcher. Not tested in other applications.
Comment:	Positive Control: Mouse liver , HepG2
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	6 mg/mL
Buffer:	0.1M Tris-Glycine (pH 7), 10 % Glycerol, 0.01 % Thimerosal
Preservative:	Thimerosal (Merthiolate)

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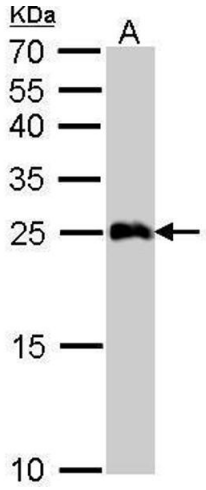
Handling

Precaution of Use:	This product contains Thimerosal (Merthiolate): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

Images

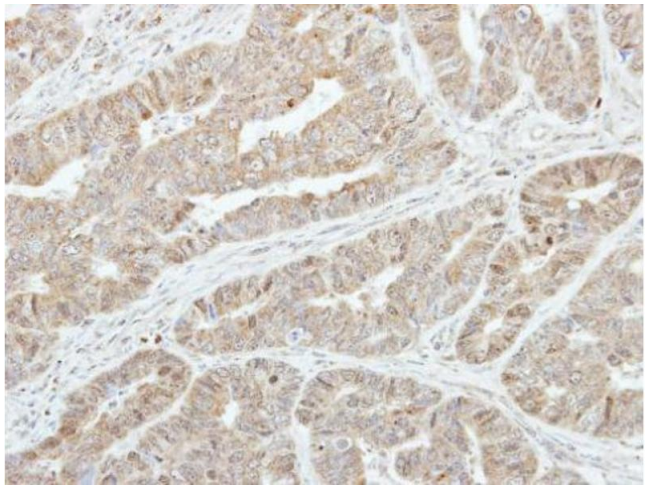


Western Blotting

Image 1. WB Image GSTA1 antibody detects GSTA1 protein by Western blot analysis. A. 50 µg mouse liver lysate/extract 12 % SDS-PAGE GSTA1 antibody , dilution: 1:5000

Immunofluorescence

Image 2. ICC/IF Image Immunofluorescence analysis of methanol-fixed Hep3B, using GSTA1, antibody at 1:500 dilution.



Immunohistochemistry

Image 3. IHC-P Image Immunohistochemical analysis of paraffin-embedded human colon carcinoma, using GSTA1, antibody at 1:250 dilution.

Please check the product details page for more images. Overall 4 images are available for ABIN2856555.

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