

Datasheet for ABIN2856132

anti-GSTa2 antibody

3 Images

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Overview

Quantity:	100 µL
Target:	GSTa2
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GSTa2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunocytochemistry (ICC), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant protein encompassing a sequence within the center region of human GSTA2. The exact sequence is proprietary.
Isotype:	IgG
Specificity:	This antibody was raised against human GSTA2 antibody. It is able to detect GSTA1, GSTA2, and GSTA3 proteins but not cross reacts with GSTA4 or GSTA5 proteins based on customer's feedback.
Cross-Reactivity:	Human, Rat
Characteristics:	Rabbit Polyclonal antibody to GSTA2 (glutathione S-transferase alpha 2) GSTA2 antibody [N1C3]
Purification:	Purified by antigen-affinity chromatography.

Target Details

Target:	GSTa2
Alternative Name:	glutathione S-transferase alpha 2 (GSTa2 Products)
Background:	<p>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-transferase 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.</p> <p>Cellular Localization: Cytoplasm</p>
Molecular Weight:	26 kDa
Gene ID:	2939
UniProt:	P09210

Application Details

Application Notes:	WB: 1:500-1:3000. 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: HepG2
Restrictions:	For Research Use only

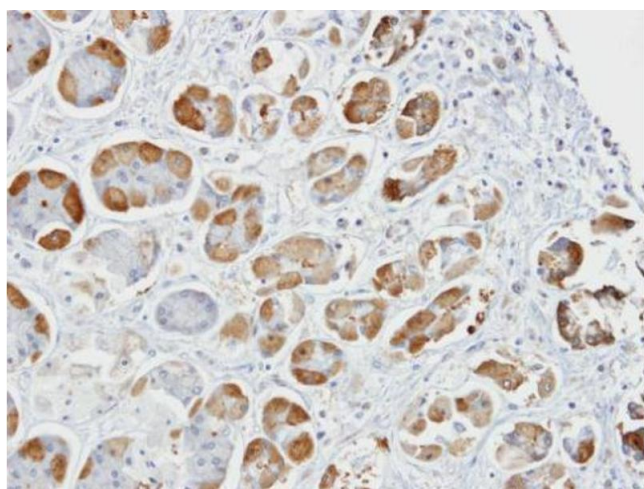
Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	0.1M Tris-Glycine (pH 7), 10 % Glycerol, 0.01 % Thimerosal

Handling

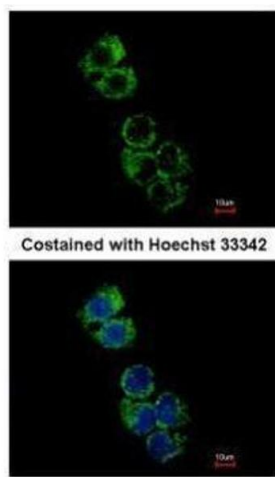
Preservative:	Thimerosal (Merthiolate)
Precaution of Use:	This product contains Thimerosal (Merthiolate): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store as concentrated solution. Centrifuge briefly prior to opening vial. 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



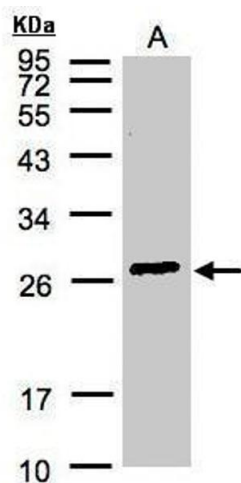
Immunohistochemistry

Image 1. IHC-P Image Immunohistochemical analysis of paraffin-embedded human stomach, using GSTA2, antibody at 1:100 dilution.



Immunofluorescence

Image 2. ICC/IF Image Immunofluorescence analysis of methanol-fixed Hep G2, using GSTA2, antibody at 1:500 dilution.



Western Blotting

Image 3. WB Image Sample(30 µg of whole cell lysate)
A:Hep G2, 12% SDS PAGE antibody diluted at 1:3000