

### Anti-GSTA1 antibody ab53940

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#### Overview

<b>Product name</b>	Anti-GSTA1 antibody
<b>Description</b>	Goat polyclonal to GSTA1
<b>Host species</b>	Goat
<b>Specificity</b>	The antibody is known to be class-specific and recognizes alpha-form GSTs from rat, mouse, hamster, rabbit, and human. Recognizes GST A1-1(Ya1), A2-2 (Ya2,Yc2), A3-3 (Ya3,Yc), A4-4 (Yk).
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P, ICC/IF, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Rabbit, Hamster, Human
<b>Immunogen</b>	Full length native protein (purified) corresponding to Rat GSTA1. Database link: <a href="#">P00502</a>
<b>General notes</b>	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

#### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	Constituent: PBS
<b>Purity</b>	IgG fraction
<b>Purification notes</b>	IgG fraction was prepared from the antisera using the caprylic acid precipitation method.
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

#### Applications

## The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab53940 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		1/1000.
ICC/IF		Use a concentration of 5 µg/ml.
WB		1/2000. Detects a band of approximately 30 kDa (predicted molecular weight: 26 kDa). 5 µL per 10 mL of 5% milk powder in TTBS (1:2000 dilution) is recommended for ECL method with overnight incubation at room temperature.

## Target

### Function

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

### Tissue specificity

Liver.

### Sequence similarities

Belongs to the GST superfamily. Alpha family.  
Contains 1 GST C-terminal domain.  
Contains 1 GST N-terminal domain.

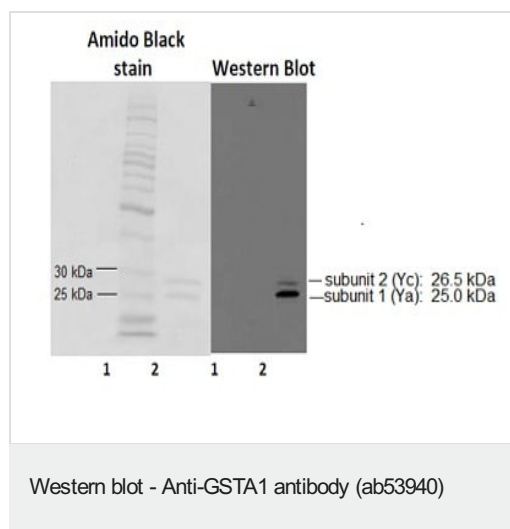
### Domain

The C-terminal domain may form a component of the hydrophobic substrate-binding site, but in contrast appears not to be directly involved in GSH binding and is not absolutely essential for catalytic activity.

### Cellular localization

Cytoplasm.

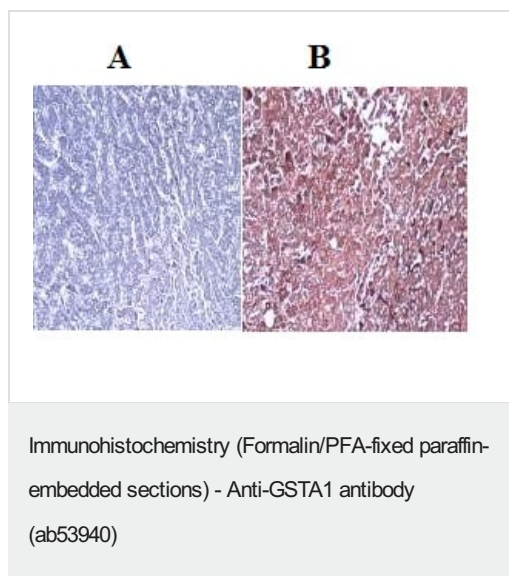
## Images



**Lane 1.** Molecular Weight Marker

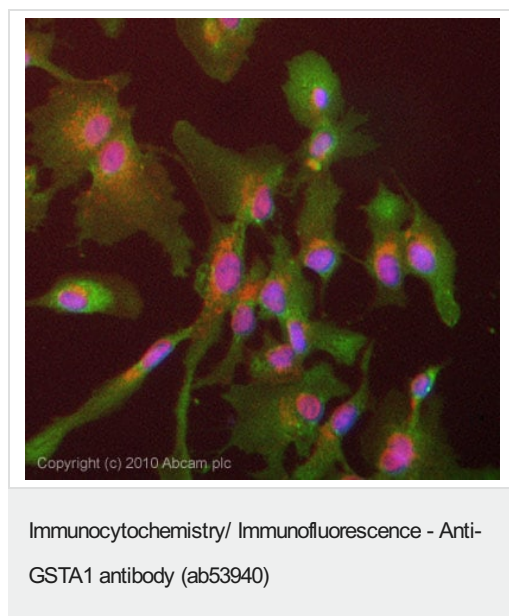
**Lane 2.** GST  $\alpha$  Standard

A 1:2000 dilution is recommended for ECL method with overnight incubation at room temperature.



A. Negative control (no antibody).

B. Rat liver section stained with ab53940 at 1/1000 dilution followed by anti-goat IgG-HRP with DAB HRP substrate.



ICC/IF image of ab53940 stained HepG2 cells. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal donkey serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab53940, 5µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 donkey anti-goat IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

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