

# Anti-GSTA1 antibody [EPR19969] - BSA and Azide free ab251473

Recombinant RabMAb

5 Images

### Overview

Product name	Anti-GSTA1 antibody [EPR19969] - BSA and Azide free
Description	Rabbit monoclonal [EPR19969] to GSTA1 - BSA and Azide free
Host species	Rabbit
Tested applications	<b>Suitable for:</b> WB, IP
Species reactivity	<b>Reacts with:</b> Human, Recombinant fragment
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
General notes	<p>ab251473 is the carrier-free version of <a href="#">ab207413</a>.</p> <p>Our <b>carrier-free</b> antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our <b>conjugation kits</b> for antibody conjugates that are ready-to-use in as little as 20 minutes with &lt;1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar<sup>®</sup> Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar<sup>®</sup> is a trademark of Fluidigm Canada Inc.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C. Do Not Freeze.
<b>Storage buffer</b>	pH: 7.2 Constituent: PBS
<b>Carrier free</b>	Yes
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR19969
<b>Isotype</b>	IgG

## Applications

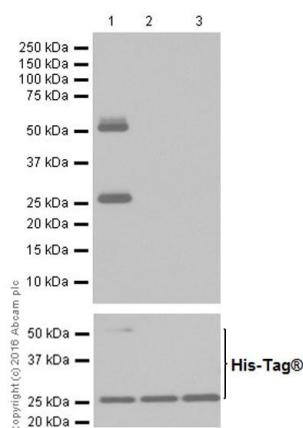
**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab251473 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
<b>WB</b>		Use at an assay dependent concentration. Detects a band of approximately 26 kDa (predicted molecular weight: 26 kDa).
<b>IP</b>		Use at an assay dependent concentration.

## Target

<b>Function</b>	Conjugation of reduced glutathione to a wide number of exogenous and endogenous hydrophobic electrophiles.
<b>Tissue specificity</b>	Liver.
<b>Sequence similarities</b>	Belongs to the GST superfamily. Alpha family. Contains 1 GST C-terminal domain. Contains 1 GST N-terminal domain.
<b>Domain</b>	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.
<b>Cellular localization</b>	Cytoplasm.

## Images



Western blot - Anti-GSTA1 antibody [EPR19969] - BSA and Azide free (ab251473)

**All lanes** : Anti-GSTA1 antibody [EPR19969] ([ab207413](#)) at 1/2000 dilution

**Lane 1** : Human GSTA1 full length recombinant protein

**Lane 2** : Human GSTA2 full length recombinant protein

**Lane 3** : Human GSTA3 full length recombinant protein

Lysates/proteins at 0.02 µg per lane.

### Secondary

**All lanes** : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

**Predicted band size:** 26 kDa

**Observed band size:** 26 kDa

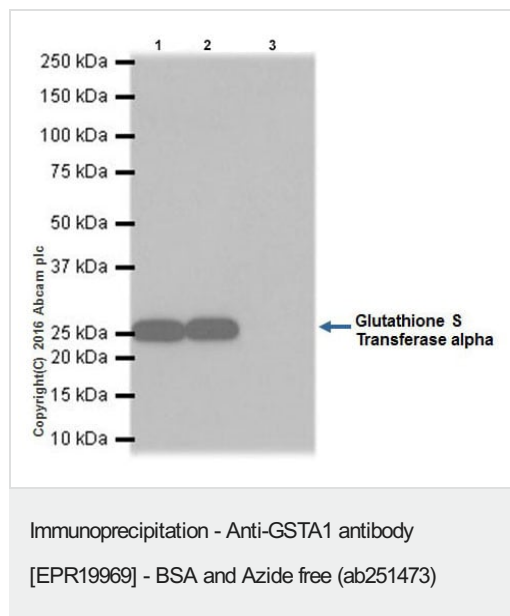
**Exposure time:** 5 seconds

This data was developed using [ab207413](#), the same antibody clone in a different buffer formulation.

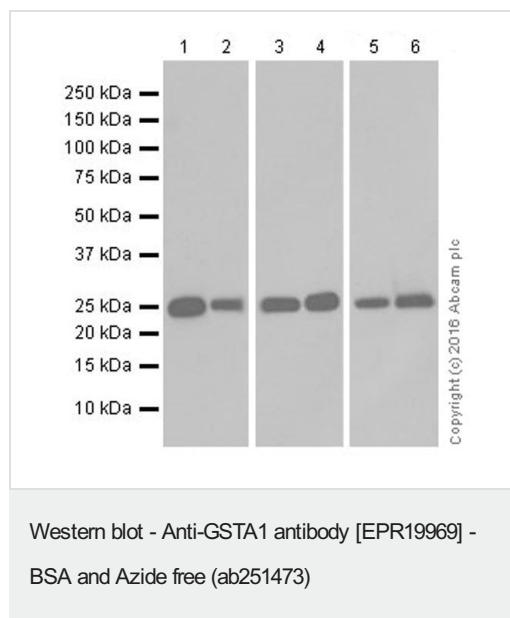
**Blocking and dilution buffer:** 5% NFDM/TBST.

GSTA1, A2, and A3 are His-Tagged full-length (aa1-222) recombinant proteins.

GSTA4 and A5 were not recognized by [ab207413](#) (data not shown).



This data was developed using **ab207413**, the same antibody clone in a different buffer formulation. GSTA1 was immunoprecipitated from 0.35 mg of HepG2 (Human liver hepatocellular carcinoma cell line) whole cell lysate with **ab207413** at 1/30 dilution. Western blot was performed from the immunoprecipitate using **ab207413** at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/10000 dilution. Lane 1: HepG2 whole cell lysate, 10µg (Input). Lane 2: **ab207413** IP in HepG2 whole cell lysate. Lane 3: Rabbit IgG, monoclonal [EPR25A]-Isotype Control (**ab172730**) instead of **ab207413** in HepG2 whole cell lysate. Blocking and dilution buffer and concentration: 5% NFDm/TBST. Exposure time: 10 seconds.



**All lanes :** Anti-GSTA1 antibody [EPR19969] (**ab207413**) at 1/5000 dilution

**Lane 1 :** HepG2 (Human liver hepatocellular carcinoma cell line) whole cell lysate

**Lane 2 :** Caco-2 (Human colorectal adenocarcinoma cell line) whole cell lysate

**Lane 3 :** Human pancreas lysate

**Lane 4 :** Human fetal lung lysate

**Lane 5 :** Human fetal liver lysate

**Lane 6 :** Human testis lysate

Lysates/proteins at 20 µg per lane.

## Secondary

**Lanes 1-2 :** Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

**Lanes 3-6 :** Goat Anti-Rabbit IgG Peroxidase Conjugate, specific to the non-reduced form of IgG at 1/10000 dilution

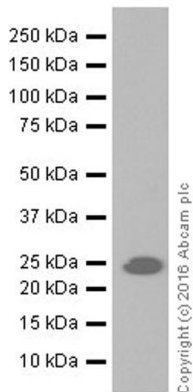
**Predicted band size:** 26 kDa

**Observed band size:** 26 kDa

This data was developed using **ab207413**, the same antibody clone in a different buffer formulation.

**Blocking and dilution buffer:** 5% NFDM/TBST.

**Exposure time:** Lanes 1-4: 3 minutes; Lanes 5 and 6: 1 second.



Western blot - Anti-GSTA1 antibody [EPR19969] - BSA and Azide free (ab251473)

Anti-GSTA1 antibody [EPR19969] (**ab207413**) at 1/2000 dilution + Human fetal kidney lysate at 20 µg

### Secondary

Goat Anti-Rabbit IgG Peroxidase Conjugate, specific to the non-reduced form of IgG at 1/10000 dilution

**Predicted band size:** 26 kDa

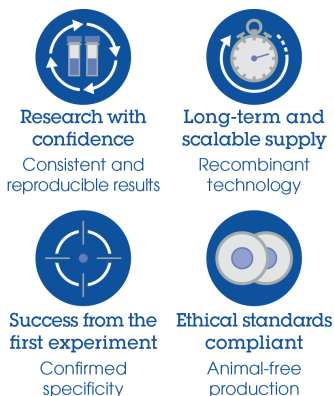
**Observed band size:** 26 kDa

**Exposure time:** 3 minutes

This data was developed using **ab207413**, the same antibody clone in a different buffer formulation.

**Blocking and dilution buffer:** 5% NFDM/TBST.

### Why choose a recombinant antibody?



Anti-GSTA1 antibody [EPR19969] - BSA and Azide free (ab251473)

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

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