

Product datasheet

Anti-GSTA1 antibody [EPR19969] ab207413

Recombinant RabMAb

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Overview

Product name	Anti-GSTA1 antibody [EPR19969]
Description	Rabbit monoclonal [EPR19969] to GSTA1
Host species	Rabbit
Tested applications	Suitable for: WB, IP
Species reactivity	Reacts with: Human, Recombinant fragment
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Human GSTA1 full length recombinant protein; HepG2 and Caco-2 whole cell lysates; Human pancreas, fetal lung, fetal liver, testis and fetal kidney lysates. IP: HepG2 whole cell lysate.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR19969
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab207413 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
WB		1/2000. Detects a band of approximately 26 kDa (predicted molecular weight: 26 kDa).
IP		1/30.

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.

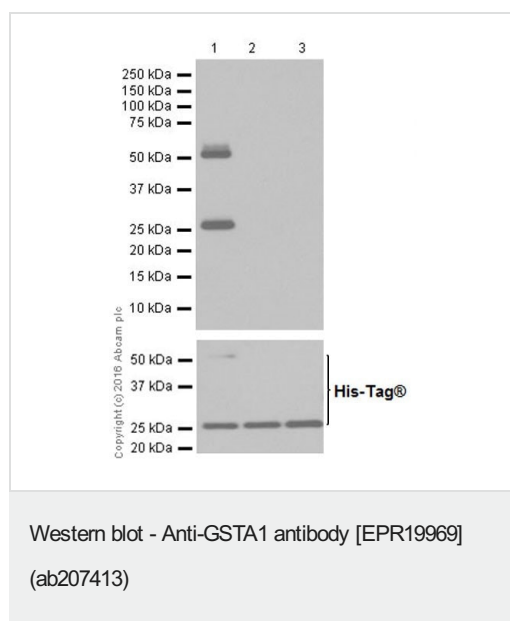
Domain

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



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

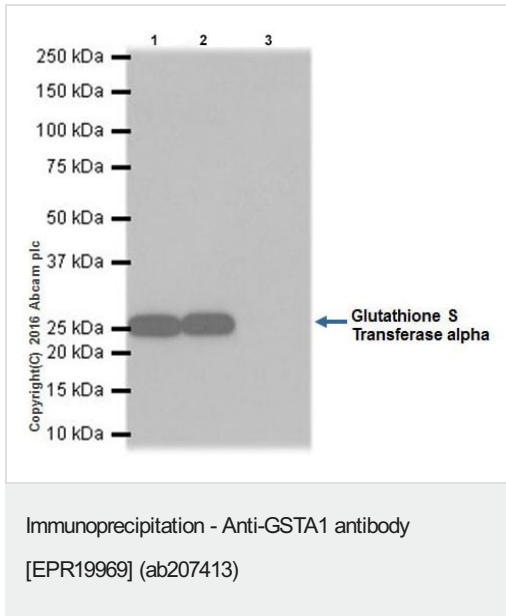
Observed band size: 26 kDa

Exposure time: 5 seconds

Blocking/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).



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.

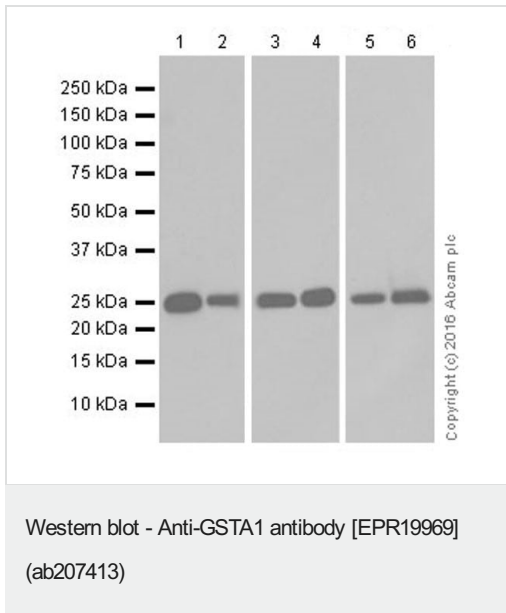
Lane 1: HepG2 whole cell lysate, 10µg (Input).

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

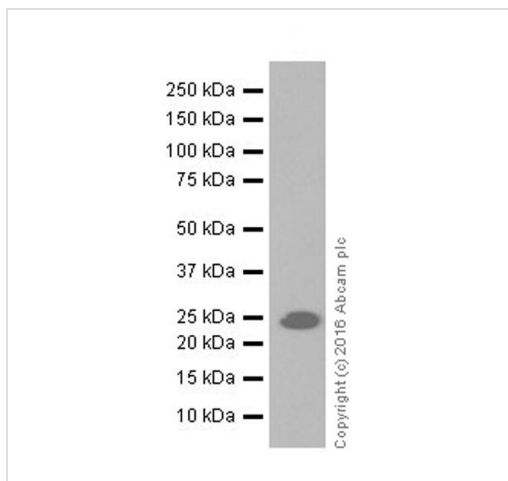
Lanes 3-6 : Goat Anti-Rabbit IgG Peroxidase Conjugate, specific to the non-reduced form of IgG at 1/10000 dilution

Predicted band size: 26 kDa

Observed band size: 26 kDa

Blocking/Dilution buffer: 5% NFDm/TBST.

Exposure time: Lane 1,2,3 and 4: 3 minutes; Lane 5 and 6: 1 second.



Western blot - Anti-GSTA1 antibody [EPR19969] (ab207413)

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

Blocking/Dilution buffer: 5% NFDm/TBST.

Why choose a recombinant antibody?

 <p>Research with confidence Consistent and reproducible results</p>	 <p>Long-term and scalable supply Recombinant technology</p>
 <p>Success from the first experiment Confirmed specificity</p>	 <p>Ethical standards compliant Animal-free production</p>

Anti-GSTA1 antibody [EPR19969] (ab207413)

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