abcam

Product datasheet

Anti-MGST1 antibody [EPR7934] ab131059

Recombinant RabMAb

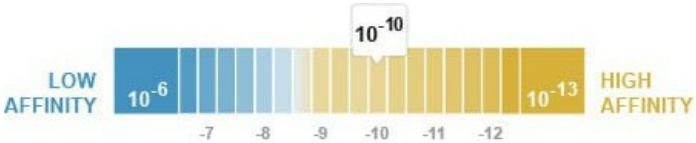
4 References 8 Images

Overview

Product name	Anti-MGST1 antibody [EPR7934]
Description	Rabbit monoclonal [EPR7934] to MGST1
Host species	Rabbit
Specificity	The mouse and rat recommendation is based on the WB results. We do not guarantee IHC-P for mouse and rat.
Tested applications	**Suitable for:** WB, IHC-P, Flow Cyt (Intra), ICC/IF
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Synthetic peptide corresponding to Human MGST1 aa 1-100. Database link: **P10620**
Positive control	Human fetal liver, mouse liver, HepG2, and HT-1376 lysates; Human liver tissue. MCF7
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

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.
Dissociation constant (K_D)	$K_D = 6.80 \times 10^{-10}$ M



Learn more about K_D

Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR7934
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab131059 in the following tested applications.

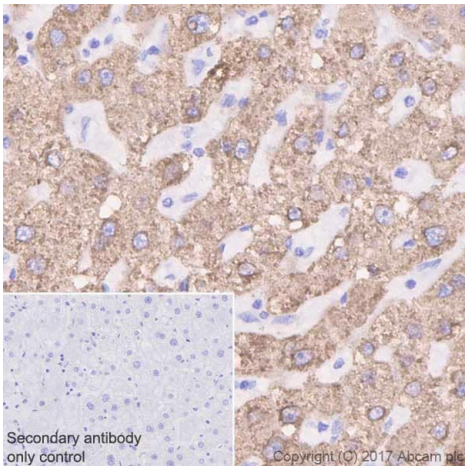
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000 - 1/10000. Detects a band of approximately 16 kDa (predicted molecular weight: 18 kDa).
IHC-P		1/1000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. The mouse and rat recommendation is based on the WB results. We do not guarantee IHC-P for mouse and rat. **For unpurified use at 1/50 - 1/100.**
Flow Cyt (Intra)		1/10 - 1/100. **ab172730** - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
ICC/IF		1/50 - 1/100.

Target

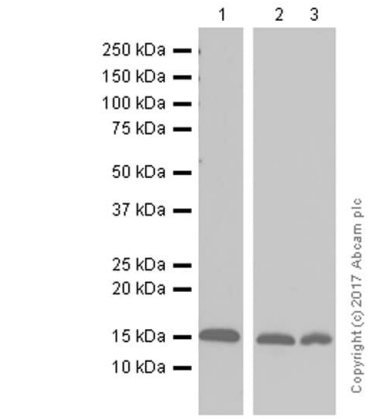
Function	Conjugation of reduced glutathione to a wide number of exogenous and endogenous hydrophobic electrophiles. Has a wide substrate specificity.
Tissue specificity	Highly expressed in liver.
Sequence similarities	Belongs to the MAPEG family.
Post-translational modifications	Peroxynitrite induces nitration at Tyr-93 which activates the enzyme.
Cellular localization	Microsome. Mitochondrion outer membrane. Endoplasmic reticulum membrane.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MGST1 antibody [EPR7934] (ab131059)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human liver tissue sections labeling MGST1 with Purified ab131059 at 1:1000 dilution. Heat mediated antigen retrieval was performed using **ab93684** (Tris/EDTA buffer, pH 9.0). Tissue was counterstained with Hematoxylin. ImmunoHistoProbe one step HRP Polymer (ready to use) secondary antibody was used at 1:0 dilution. PBS instead of the primary antibody was used as the negative control.



Western blot - Anti-MGST1 antibody [EPR7934] (ab131059)

All lanes : Anti-MGST1 antibody [EPR7934] (ab131059) at 1/5000 dilution

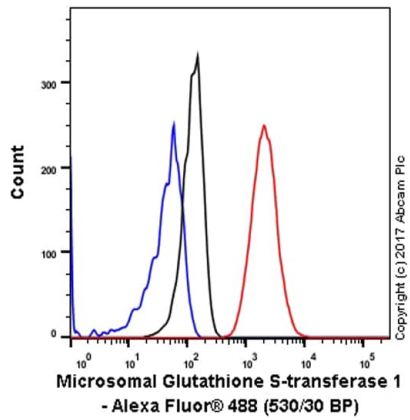
Lane 1 : Human fetal liver lysates
Lane 2 : Mouse liver lysates
Lane 3 : Rat liver lysates

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/2000 dilution

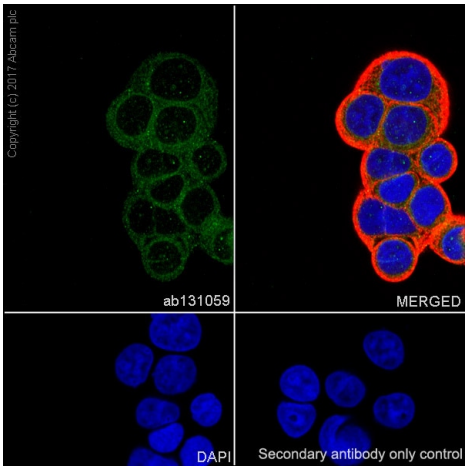
Predicted band size: 18 kDa

Blocking and dilutuing buffer: 5% NFDM/TBST.



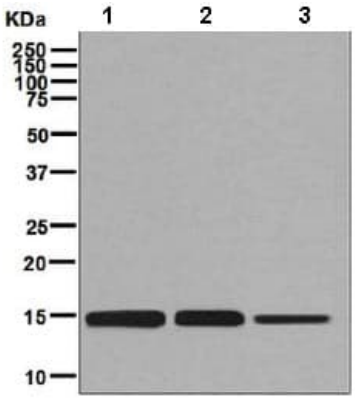
Flow Cytometry (Intracellular) - Anti-MGST1 antibody [EPR7934] (ab131059)

Intracellular Flow Cytometry analysis of MCF7 (Human breast adenocarcinoma epithelial cell) cells labeling MGST1 with purified ab131059 at 1/40 dilution (red). Cells were fixed with 4% Paraformaldehyde. A Goat anti rabbit IgG (Alexa Fluor® 488) secondary antibody was used at 1/2000 dilution. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue).



Immunocytochemistry/ Immunofluorescence - Anti-MGST1 antibody [EPR7934] (ab131059)

Immunocytochemistry/ Immunofluorescence analysis of MCF7 (Human breast adenocarcinoma epithelial cell) cells labeling Microsomal Glutathione S-transferase 2 with Purified ab131059 at 1:100 dilution. Cells were fixed in 100% Methanol and permeabilized with None. Cells were counterstained with Ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor ® 594) 1:200 (2.5 µg/ml). **ab150077** Goat anti rabbit IgG(Alexa Fluor ® 488) was used as the secondary antibody at 1:1000 dilution. DAPI nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



Western blot - Anti-MGST1 antibody [EPR7934] (ab131059)

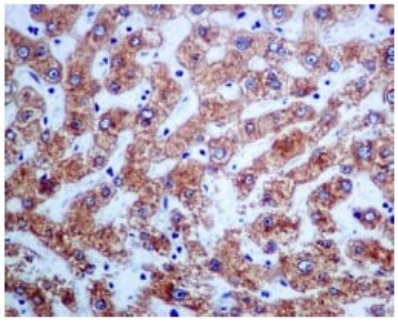
All lanes : Anti-MGST1 antibody [EPR7934] (ab131059) at 1/1000 dilution

Lane 1 : Human fetal liver lysate
Lane 2 : HepG2 lysate
Lane 3 : HT-1376 lysate

Lysates/proteins at 10 µg per lane.

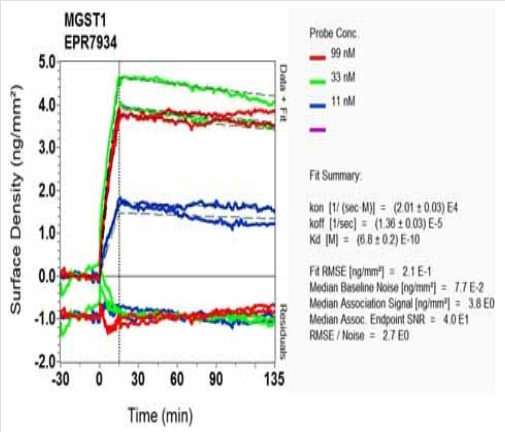
Secondary
All lanes : HRP labelled goat anti-rabbit at 1/2000 dilution

Predicted band size: 18 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MGST1 antibody [EPR7934] (ab131059)

Immunohistochemical analysis of paraffin embedded Human liver tissue labelling MGST1 with ab131059 antibody at 1/50 dilution.



OI-RD Scanning - Anti-MGST1 antibody [EPR7934] (ab131059)

Equilibrium disassociation constant (K_D)

Learn more about K_D

Click here to learn more about K_D

Anti-MGST1 antibody [EPR7934] (ab131059)

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