abcam

Product datasheet

Anti-AGXT antibody [EPR22885-58] ab261910

Recombinant RabMAb

2 References 8 Images

Overview

Product name	Anti-AGXT antibody [EPR22885-58]
Description	Rabbit monoclonal [EPR22885-58] to AGXT
Host species	Rabbit
Specificity	This antibody is not recommended for rat IHC-fr.
Tested applications	**Suitable for:** Flow Cyt (Intra), WB, IHC-P, IHC-Fr **Unsuitable for:** ICC/IF or IP
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Human liver, Mouse liver and Rat liver lysates. IHC-P: Human liver, Human liver cancer and Mouse liver tissues. IHC-Fr: Mouse liver tissue. Flow Cyt (intra): Hepa1-6 cells.
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.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal

Clone number	EPR22885-58
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab261910 in the following tested applications.

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

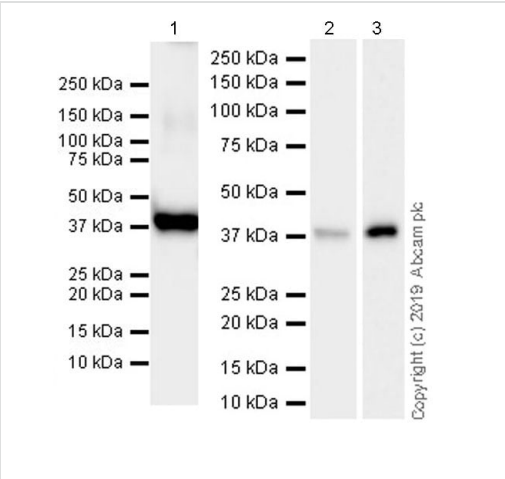
Application	Abreviews	Notes
Flow Cyt (Intra)		1/50.
WB		1/1000. Detects a band of approximately 43 kDa (predicted molecular weight: 43 kDa).
IHC-P		1/1000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
IHC-Fr		1/100. Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20). This antibody is not recommended for rat IHC-fr.

Application notes Is unsuitable for ICC/IF or IP.

Target

Tissue specificity	Liver.
Involvement in disease	Defects in AGXT are the cause of hyperoxaluria primary type 1 (HP1) [MIM:259900]; also known as primary hyperoxaluria type I (PH1) and oxalosis I. HP1 is a rare autosomal recessive inborn error of glyoxylate metabolism characterized by increased excretion of oxalate and glycolate, and the progressive accumulation of insoluble calcium oxalate in the kidney and urinary tract.
Sequence similarities	Belongs to the class-V pyridoxal-phosphate-dependent aminotransferase family.
Cellular localization	Peroxisome. Mitochondrion matrix. Except in some HP1 patients where AGT is found in the mitochondrial matrix.

Images



Western blot - Anti-AGXT antibody [EPR22885-58] (ab261910)

All lanes : Anti-AGXT antibody [EPR22885-58] (ab261910) at 1/1000 dilution

Lane 1 : Human liver tissue lysate
Lane 2 : Mouse liver tissue lysate
Lane 3 : Rat liver tissue lysate

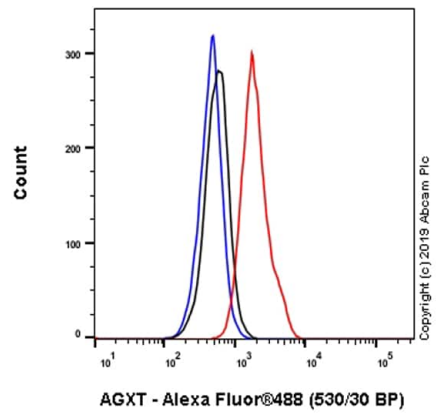
Lysates/proteins at 20 µg per lane.

Secondary
Lane 1 : VeriBlot for IP Detection Reagent (HRP) (**ab131366**) at 1/250 dilution
Lanes 2-3 : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

Predicted band size: 43 kDa
Observed band size: 43 kDa

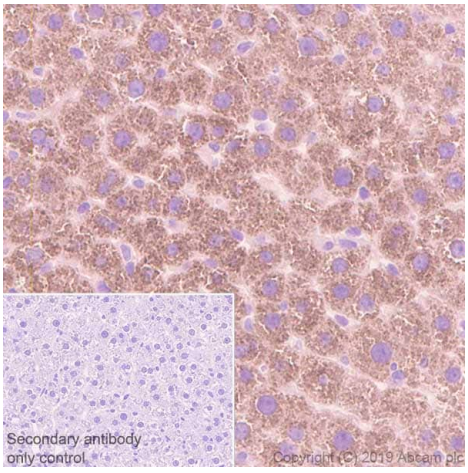
Blocking and diluting buffer and concentration: 5% NFDM/TBST
The expression profile observed is consistent with what has been described in the literature (PMID: 16309382).

Exposure time: Lanes 1/2: 1 second; Lane 3: 59 seconds.



Flow Cytometry (Intracellular) - Anti-AGXT antibody [EPR22885-58] (ab261910)

Intracellular flow cytometric analysis of 4% paraformaldehyde fixed, 90% methanol permeabilized Hepa1-6 (mouse hepatoma epithelial cell) cells labelling AGXT with ab261910 at 1/50 dilution (Red) compared with a Rabbit monoclonal IgG (**ab172730**) / Black isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) at 1/2000 dilution was used as the secondary antibody.

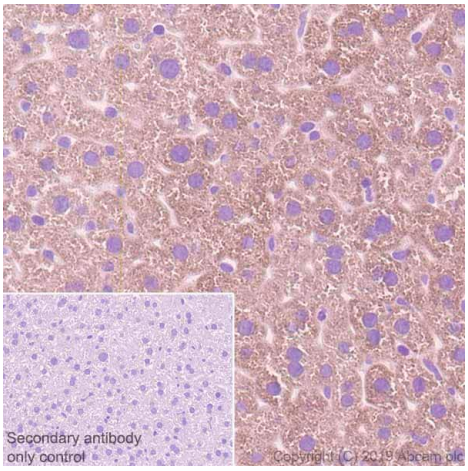


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-AGXT antibody [EPR22885-58] (ab261910)

Immunohistochemical analysis of paraffin-embedded rat liver tissue labeling AGXT with ab261910 at 1/1000 dilution (0.502ug/ml) followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Positive staining in rat liver (PMID: 29883780) is observed. The section was incubated with ab261910 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.

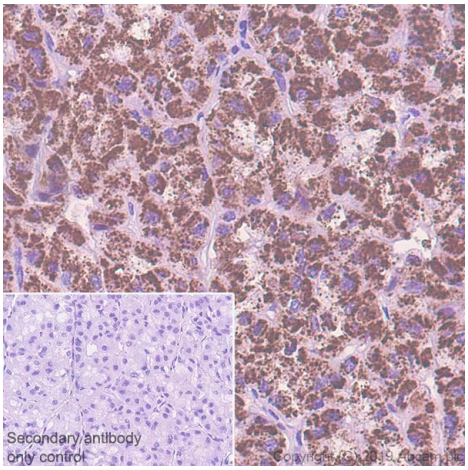


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-AGXT antibody [EPR22885-58] (ab261910)

Immunohistochemical analysis of paraffin-embedded Mouse liver tissue labeling AGXT with ab261910 at 1/ 1000 dilution (0.502ug/ml) followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Positive staining in mouse liver (PMID: 29883780) is observed. The section was incubated with ab261910 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.

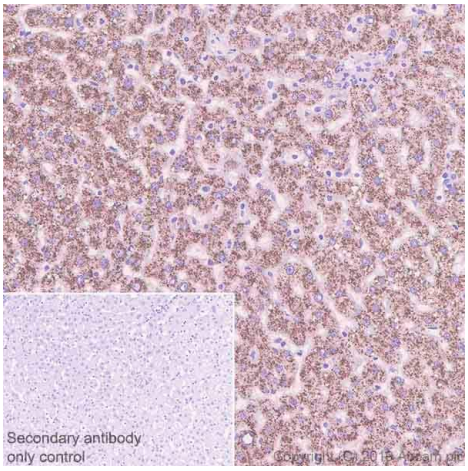


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-AGXT antibody [EPR22885-58] (ab261910)

Immunohistochemical analysis of paraffin-embedded Human liver cancer tissue labeling AGXT with ab261910 at 1/ 1000 dilution (0.502ug/ml) followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Positive staining in human liver cancer (PMID: 29883780) is observed. The section was incubated with ab261910 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.

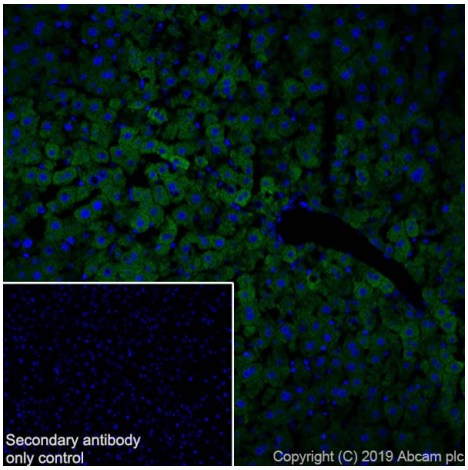


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-AGXT antibody [EPR22885-58] (ab261910)

Immunohistochemical analysis of paraffin-embedded Human liver tissue labeling AGXT with ab261910 at 1/ 1000 dilution (0.502ug/ml) followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Positive staining in human liver (PMID: 29883780) is observed. The section was incubated with ab261910 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

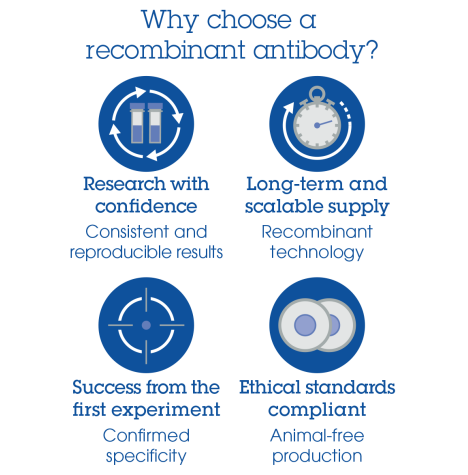
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.



Immunohistochemistry (Frozen sections) - Anti-AGXT antibody [EPR22885-58] (ab261910)

Immunohistochemical analysis of 4% PFA-fixed, 0.2% Triton X-100 permeabilized frozen section of mouse liver tissue labeling AGXT with ab261910 at 1/100 dilution, followed by **ab150077** AlexaFluor®488 Goat anti-Rabbit secondary at 1/1000 dilution (green). The nuclear counter stain is DAPI (blue). Positive staining on mouse liver (PMID: 29883780).

Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20).



Anti-AGXT antibody [EPR22885-58] (ab261910)

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