

Anti-Liver Arginase antibody [EPR6672(B)] ab133543

KO 評価済 リコンビナント RabMAb

★★★★★ [3 Abreviews](#) [18 References](#) [画像数 7](#)

製品の概要

製品名	Anti-Liver Arginase antibody [EPR6672(B)]
製品の詳細	Rabbit monoclonal [EPR6672(B)] to Liver Arginase
由来種	Rabbit
アプリケーション	適用あり: WB, IHC-P, IP 適用なし: Flow Cyt
種交差性	交差種: Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers. (Peptide available as ab217538)
ポジティブ・コントロール	WB: Human fetal liver and fetal lung lysates. IHC-P: Human hepatocellular carcinoma tissue.
特記事項	This product is a recombinant monoclonal antibody, which offers several advantages including: <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 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 .

製品の特性

製品の状態	Liquid
保存方法	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.
バッファー	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EPR6672(B)

アイソタイプIgG

アプリケーション

The Abpromise guarantee Abpromise保証は、 次のテスト済みアプリケーションにおけるab133543の使用に適用されます
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

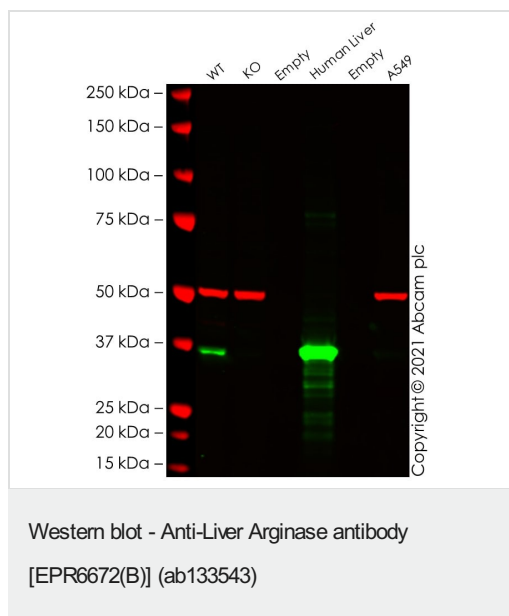
アプリケーション	Abreviews	特記事項
WB		1/1000 - 1/10000. Detects a band of approximately 35 kDa (predicted molecular weight: 35 kDa).Can be blocked with <u>Liver Arginase peptide (ab217538)</u> .
IHC-P	★★★★★ (2)	1/250 - 1/500. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
IP		1/10 - 1/100.

追加情報 Is unsuitable for Flow Cyt.

ターゲット情報

パスウェイ	Nitrogen metabolism; urea cycle; L-ornithine and urea from L-arginine: step 1/1.
関連疾患	Defects in ARG1 are the cause of argininemia (ARGIN) [MIM:207800]; also known as hyperargininemia. Argininemia is a rare autosomal recessive disorder of the urea cycle. Arginine is elevated in the blood and cerebrospinal fluid, and periodic hyperammonemia occurs. Clinical manifestations include developmental delay, seizures, mental retardation, hypotonia, ataxia, progressive spastic quadriplegia.
配列類似性	Belongs to the arginase family.
細胞内局在	Cytoplasm.

画像



All lanes : Anti-Liver Arginase antibody [EPR6672(B)] (ab133543) at 1/1000 dilution

Lane 1 : Wild-type HepG2 cell lysate at 20 µg

Lane 2 : arg1 knockout HepG2 cell lysate at 20 µg

Lanes 3 & 5 : Empty at 0 µg

Lane 4 : Human Liver cell lysate at 5 µg

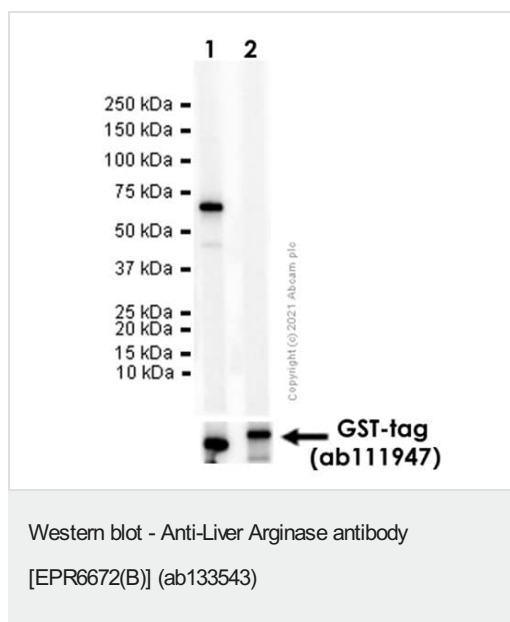
Lane 6 : A549 cell lysate at 20 µg

Performed under reducing conditions.

Predicted band size: 35 kDa

Observed band size: 36 kDa

False colour image of Western blot: Anti-Liver Arginase antibody [EPR6672(B)] staining at 1/1000 dilution, shown in green; Mouse anti-Alpha Tubulin [DM1A] ([ab7291](#)) loading control staining at 1/20000 dilution, shown in red. In Western blot, ab133543 was shown to bind specifically to Liver Arginase. A band was observed at 36 kDa in wild-type HepG2 cell lysates with no signal observed at this size in arg1 knockout cell line [ab281603](#) (knockout cell lysate [ab282955](#)). To generate this image, wild-type and arg1 knockout HepG2 cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 5 % milk in TBS-0.1 % Tween® 20 (TBS-T) before incubation with primary antibodies overnight at 4 °C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged. Secondary antibodies used were Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed ([ab216773](#)) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed ([ab216776](#)) at 1/20000 dilution.



All lanes : Anti-Liver Arginase antibody [EPR6672(B)] (ab133543)
at 1/1000 dilution

Lane 1 : GST tagged Recombinant Human ARG1 protein (full-length, aa 1 to 322) (61 KDa)

Lane 2 : GST tagged Recombinant Human ARG2 protein (full-length, aa 1 to 354) (65 KDa)

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution (Goat Anti-Rabbit IgG,(H+L), Peroxidase conjugated)

Predicted band size: 35 kDa

Observed band size: 61 kDa



Anti-Liver Arginase antibody [EPR6672(B)] (ab133543) at 1/2000 dilution + Human liver lysates at 15 µg

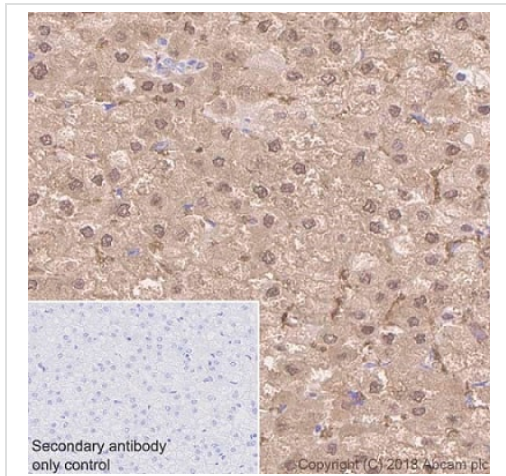
Secondary

Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 35 kDa

Exposure time: 5 seconds

Blocking and diluting buffer: 5% NFDM/TBST.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Liver Arginase antibody [EPR6672(B)] (ab133543)

ab133543 staining liver arginase in paraffin embedded human hepatocellular cancer tissue sections by Immunohistochemistry.

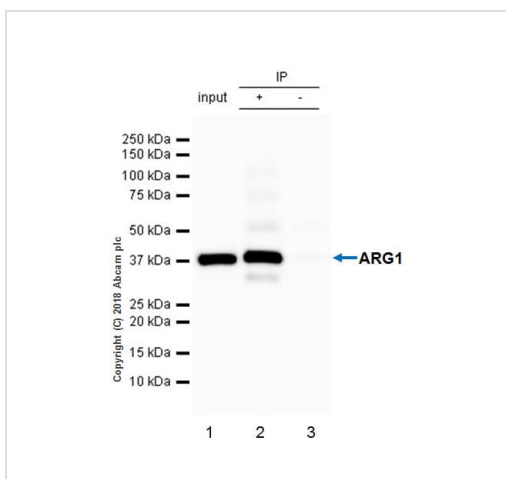
Heat mediated antigen retrieval was performed using [ab93684](#) (Tris/EDTA buffer, pH 9.0).

Samples were incubated with primary antibody at 1:2000 dilution (0.13 µg/ml).

A ready to use Goat anti-rabbit IgG H&L (HRP) was used as the secondary antibody.

Hematoxylin was used as a counterstain.

Cytoplasmic and nuclear staining on human hepatocellular cancer.



Immunoprecipitation - Anti-Liver Arginase antibody [EPR6672(B)] (ab133543)

Lane 1 (input): Human fetal liver whole cell lysate, 10µg

Lane 2: Human fetal liver whole cell lysate

Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of ab133543 in Human fetal liver whole cell lysate


Ab133543 immunoprecipitating liver arginase in Human fetal liver whole cell lysates. Primary antibody was used at a 1:1000 dilution (0.27 µg/ml). For western blotting, VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)) was used for detection at 1:5000 dilution. Capture antibody was used at 1:20 dilution (1.3µg in 0.35mg lysates).

Blocking and diluting buffer used: 5% NFDM/TBST.

Tissue Microarray (TMA) data for ab133543					
Normal tissue samples			Malignant tissue samples		
Human cardiac muscle	x	Human placenta	x	Human glioma	x
Human cerebrum	x	Human skeletal muscle	x	Human liver carcinoma	✓
Human colon	x	Human skin	x	Human lung carcinoma	x
Human endometrium	x	Human spleen	x	Human ovarian carcinoma	x
Human kidney	x	Human stomach	x	Human pancreatic carcinoma	x
Human liver	✓	Human testis	x	Human prostatic hyperplasia	x
Human lung	x	Human thyroid	x	Human thyroid carcinoma	x
Human mammary gland	x	Human tonsil	x		
Human pancreas	x				


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Liver Arginase antibody [EPR6672(B)] (ab133543)

Why choose a recombinant antibody?




Research with confidence

Consistent and reproducible results




Long-term and scalable supply

Recombinant technology



Success from the first experiment

Confirmed specificity



Ethical standards compliant

Animal-free production

Anti-Liver Arginase antibody [EPR6672(B)] (ab133543)

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

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Tissue Microarrays stained for "Anti-Liver Arginase antibody [EPR6672(B)]" using "ab133543" in immunohistochemical analysis. This table provides a detailed overview of positive (tick mark) and negative (cross mark) staining per sample type tested. The sections were pre-treated using Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0) for 20 minutes. The sections were incubated with ab133543 for 30 mins at room temperature followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). The immunostaining was performed on a Leica Biosystems BOND® RX instrument.

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