


# Anti-ATPB antibody - Mitochondrial Marker ab128743

★★★★★ [2 Abreviews](#) [11 References](#) [画像数 4](#)

### 製品の概要

製品名	Anti-ATPB antibody - Mitochondrial Marker
製品の詳細	Rabbit polyclonal to ATPB - Mitochondrial Marker
由来種	Rabbit
特異性	From Jan 2024, QC testing of replenishment batches of this polyclonal changed. All tested and expected application and reactive species combinations are still covered by our Abcam product promise. However, we no longer test all applications. For more information on a specific batch, please contact our Scientific Support who will be happy to help.
アプリケーション	<b>適用あり:</b> IHC-P, WB, ICC/IF
種交差性	<b>交差種:</b> Mouse, Rat, Human <b>交差が予測される動物種:</b> Rabbit, Cow, Dog, Pig, Saccharomyces cerevisiae, Chimpanzee, Macaque monkey, Chinese hamster 
免疫原	Synthetic peptide corresponding to Human ATPB aa 150-250 conjugated to keyhole limpet haemocyanin. (Peptide available as <a href="#">ab140747</a> )
ポジティブ・コントロール	This antibody gave a positive signal in Mouse Liver tissue lysate as well as the following whole cell lysates: HeLa; HepG2; MEF1; NIH3T3; Raw264.7; PC12. This antibody gave a positive result in IHC in the following FFPE tissue: Human normal heart muscle. This antibody gave a positive result when used in the following methanol fixed cell lines: HepG2.
特記事項	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

### 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 or -80°C. Avoid freeze / thaw cycle.

## バッファー

pH: 7.40  
Preservative: 0.02% Sodium azide  
Constituent: PBS

Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.

## 精製度

Immunogen affinity purified

## ポリ/モノ

ポリクローナル

## 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ab128743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
IHC-P		Use a concentration of 1 µg/ml.
WB	★★★★★ (2)	Use a concentration of 1 µg/ml. Detects a band of approximately 56 kDa (predicted molecular weight: 56 kDa).
ICC/IF		Use a concentration of 5 µg/ml.

## ターゲット情報

### 機能

Mitochondrial membrane ATP synthase (F(1)F(0) ATP synthase or Complex V) produces ATP from ADP in the presence of a proton gradient across the membrane which is generated by electron transport complexes of the respiratory chain. F-type ATPases consist of two structural domains, F(1) - containing the extramembraneous catalytic core, and F(0) - containing the membrane proton channel, linked together by a central stalk and a peripheral stalk. During catalysis, ATP synthesis in the catalytic domain of F(1) is coupled via a rotary mechanism of the central stalk subunits to proton translocation. Subunits alpha and beta form the catalytic core in F(1). Rotation of the central stalk against the surrounding alpha(3)beta(3) subunits leads to hydrolysis of ATP in three separate catalytic sites on the beta subunits.

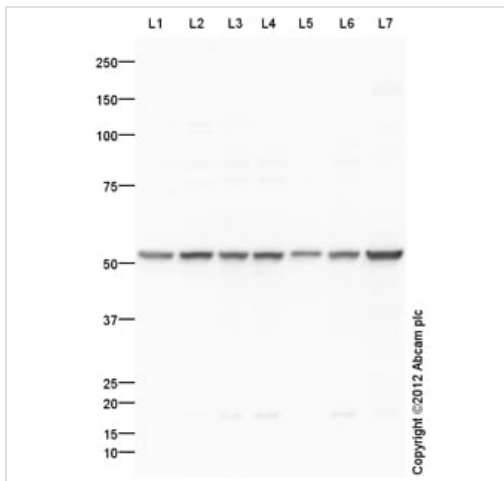
### 配列類似性

Belongs to the ATPase alpha/beta chains family.

### 細胞内局在

Mitochondrion. Mitochondrion inner membrane. Peripheral membrane protein.

## 画像



Western blot - Anti-ATPB antibody - Mitochondrial Marker (ab128743)

**All lanes :** Anti-ATPB antibody - Mitochondrial Marker (ab128743) at 1 µg/ml

**Lane 1 :** HeLa (Human epithelial carcinoma cell line) Whole Cell Lysate

**Lane 2 :** HepG2 (Human hepatocellular liver carcinoma cell line) Whole Cell Lysate

**Lane 3 :** MEF1 (Mouse embryonic fibroblast cell line) Whole Cell Lysate

**Lane 4 :** NIH 3T3 (Mouse embryonic fibroblast cell line) Whole Cell Lysate

**Lane 5 :** RAW 264.7 (Mouse leukaemic monocyte macrophage cell line) Whole Cell Lysate

**Lane 6 :** PC12 (Rat adrenal pheochromocytoma cell line) Whole Cell Lysate

**Lane 7 :** Liver (Mouse) Tissue Lysate

Lysates/proteins at 10 µg per lane.

### Secondary

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (**ab97080**) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

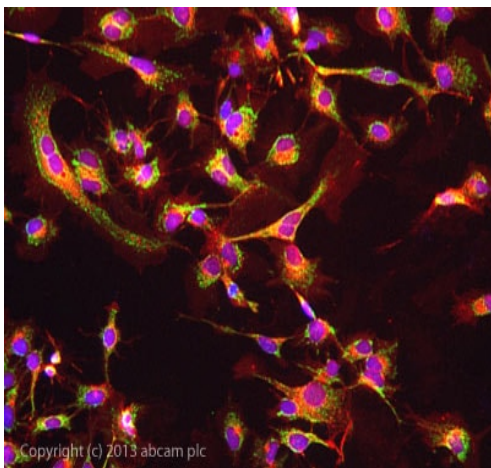
**Predicted band size:** 56 kDa

**Observed band size:** 56 kDa

**Exposure time:** 10 seconds

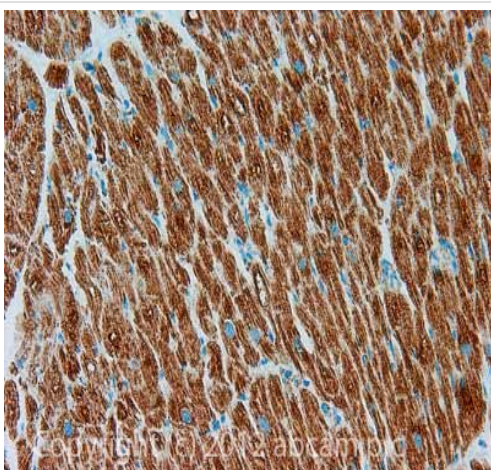
This blot was produced using a 4-12% Bis-tris gel under the MOPS buffer system. The gel was run at 200V for 50 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using 5% Bovine Serum Albumin before being incubated with ab128743 overnight at 4°C. Antibody binding was detected using an anti-rabbit antibody

conjugated to HRP, and visualised using ECL development solution.



Immunocytochemistry/ Immunofluorescence - Anti-ATPB antibody - Mitochondrial Marker (ab128743)

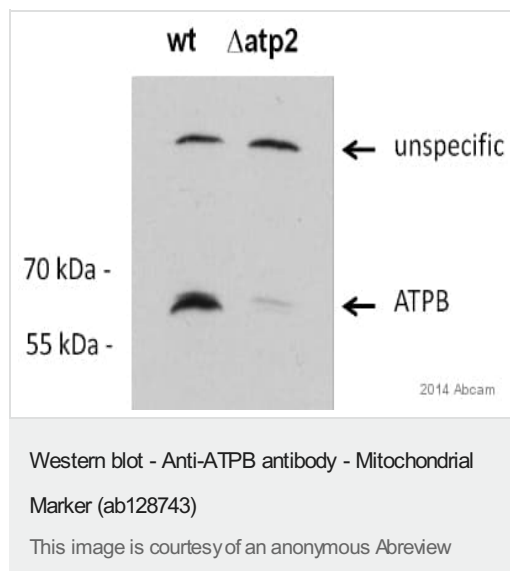
ab128743 stained HepG2 cells. The cells were 100% methanol fixed (5 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody ab128743 at 5µg/ml overnight at +4°C. The secondary antibody (green) was DyLight® 488 goat anti- rabbit (**ab96899**) IgG (H+L) used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ATPB antibody - Mitochondrial Marker (ab128743)

IHC image of ATPB staining in human normal heart muscle formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab128743, 1µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.



**All lanes :** Anti-ATPB antibody - Mitochondrial Marker (ab128743) at 1/5000 dilution

**Lane 1 :** Saccharomyces cerevisiae strain BY4741 whole cell lysate

**Lane 2 :** Saccharomyces cerevisiae strain BY4741 delta ATP2 whole cell lysate

Lysates/proteins at 20 µg per lane.

### Secondary

**All lanes :** HRP-conjugated goat anti-rabbit IgG monoclonal at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

**Predicted band size:** 56 kDa

**Observed band size:** 60 kDa

**Additional bands at:** 130 kDa (possible non-specific binding)

**Exposure time:** 5 minutes

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

### Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.co.jp/abpromise> or contact our technical team.

### Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors