abcam

Product datasheet

# Anti-ATP5A antibody [EPR13030(B)] - BSA and Azide free ab231692

リコンビナント RabMAb

**1 References** 画像数 10

## 製品の概要

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|---|---|
| **製品名** | Anti-ATP5A antibody [EPR13030(B)] - BSA and Azide free |
| **製品の詳細** | Rabbit monoclonal [EPR13030(B)] to ATP5A - BSA and Azide free |
| **由来種** | Rabbit |
| **アプリケーション** | **適用あり:** Flow Cyt (Intra), WB, ICC/IF, IHC-P |
| **種交差性** | **交差種:** Mouse, Rat, Human |
| **免疫原** | Synthetic peptide. This information is proprietary to Abcam and/or its suppliers. |
| **ポジティブ・コントロール** | IHC-P: Human liver tissue. |
| **特記事項** | ab231692 is the carrier-free version of **ab176569**.<br><br>Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.<br><br>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.<br><br>Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.<br><br>This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc.<br><br>This product is a recombinant monoclonal antibody, which offers several advantages including:<br>- High batch-to-batch consistency and reproducibility<br>- Improved sensitivity and specificity<br>- Long-term security of supply<br>- Animal-free production<br>For more information **see here**.<br><br>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

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|---|---|
| **製品の状態** | Liquid |
| **保存方法** | Shipped at 4°C. Store at +4°C. Do Not Freeze. |
| **バッファー** | pH: 7.2<br>Constituent: PBS |
| **キャリア・フリー** | はい |
| **精製度** | Protein A purified |
| **ポリ/モノ** | モノクローナル |
| **クローン名** | EPR13030(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ab231692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 |
|---|---|---|
| **Flow Cyt (Intra)** | | Use at an assay dependent concentration. |
| **WB** | | Use at an assay dependent concentration. Predicted molecular weight: 60 kDa. |
| **ICC/IF** | | Use at an assay dependent concentration. |
| **IHC-P** | | Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. |

## ターゲット情報

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|---|---|
| **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. Subunit alpha does not bear the catalytic high-affinity ATP-binding sites. |
| **組織特異性** | Fetal lung, heart, liver, gut and kidney. Expressed at higher levels in the fetal brain, retina and spinal cord. |
| **配列類似性** | Belongs to the ATPase alpha/beta chains family. |
| **翻訳後修飾** | The N-terminus is blocked. |

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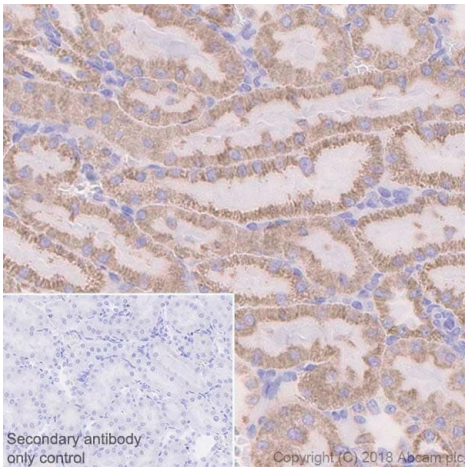
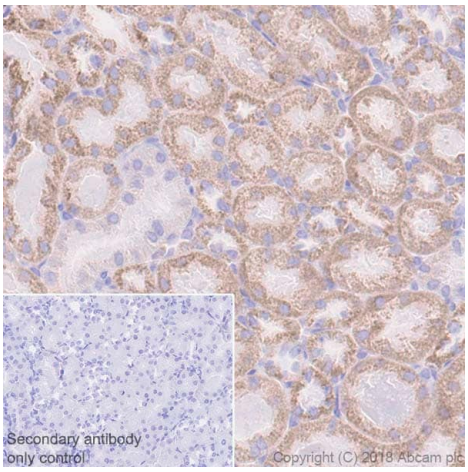
| **細胞内局在** | Mitochondrion inner membrane. Peripheral membrane protein. |

## 画像



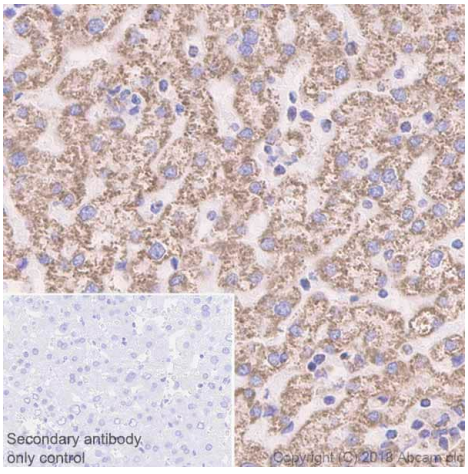

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ATP5A antibody [EPR13030(B)] - BSA and Azide free (ab231692)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Rat kidney tissue sections labeling ATP5A with Purified **ab176569** at 1:500 dilution (0.21 µg/ml). Heat mediated antigen retrieval was performed using **ab93684** (Tris/EDTA buffer, pH 9.0). ImmunoHistoProbe one step HRP Polymer (ready to use)was used as the secondary antibody.Negative control:PBS instead of the primary antibody.Hematoxylin was used as a counterstain.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab176569**).



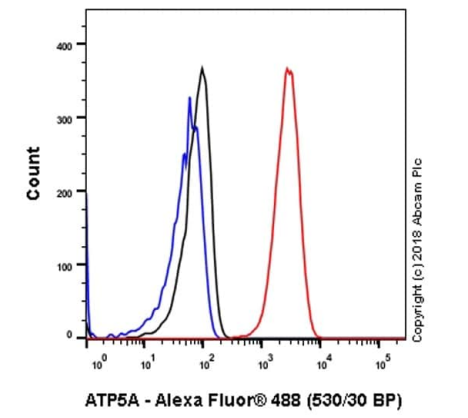

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ATP5A antibody [EPR13030(B)] - BSA and Azide free (ab231692)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Mouse kidney tissue sections labeling ATP5A with Purified **ab176569** at 1:500 dilution (0.21 µg/ml). Heat mediated antigen retrieval was performed using **ab93684** (Tris/EDTA buffer, pH 9.0). ImmunoHistoProbe one step HRP Polymer (ready to use)was used as the secondary antibody.Negative control:PBS instead of the primary antibody.Hematoxylin was used as a counterstain.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab176569**).



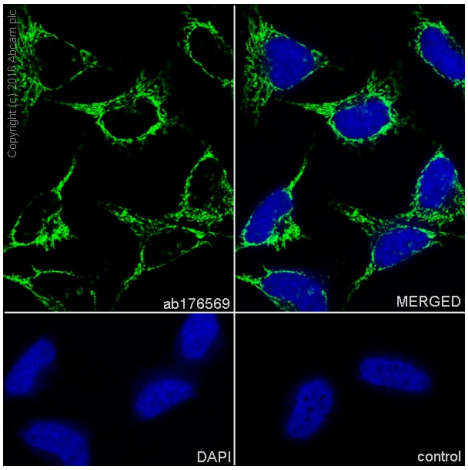

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ATP5A antibody [EPR13030(B)] - BSA and Azide free (ab231692)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human liver tissue sections labeling ATP5A with Purified **ab176569** at 1:500 dilution (0.21 µg/ml). Heat mediated antigen retrieval was performed using **ab93684** (Tris/EDTA buffer, pH 9.0). ImmunoHistoProbe one step HRP Polymer (ready to use)was used as the secondary antibody.Negative control:PBS instead of the primary antibody.Hematoxylin was used as a counterstain.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab176569**).




Flow Cytometry (Intracellular) - Anti-ATP5A antibody [EPR13030(B)] - BSA and Azide free (ab231692)

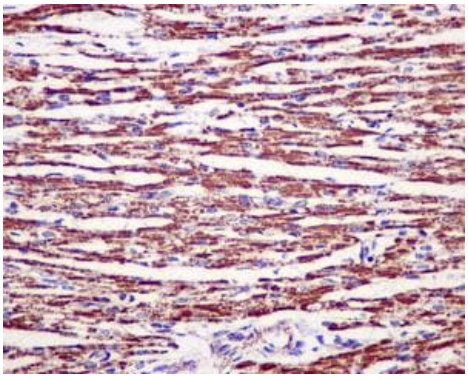
Intracellular Flow Cytometry analysis of HeLa (Human cervix adenocarcinoma epithelial cell) cells labeling ATP5A with purified **ab176569** at 1/60 dilution (10 µg/ml) (red). Cells were fixed with 4% Paraformaldehyde. A Goat anti rabbit IgG (Alexa Fluor® 488) secondary antibody was used at 1/2000 dilution. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue).
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab176569**).




Immunocytochemistry/ Immunofluorescence - Anti-ATP5A antibody [EPR13030(B)] - BSA and Azide free (ab231692)

Ab176569 (purified) staining ATP5A in HeLa (human cervix adenocarcinoma epithelial cell) by Immunocytochemistry/Immunofluorescence (ICC/IF). Cells were fixed with 4% paraformaldehyde and permeabilized n 0.1% TritonX-100. Samples were incubated with primary antibody at 1/500 dilution (4.2µg/ml). An AlexaFluor®488 Goat anti-Rabbit (**ab150077**) was used as a secondary antibody at 1/1000 dilution (2µg/ml). DAPI was used as a nuclear counterstain. Confocal image showing cytoplasmic staining in HeLa cells.

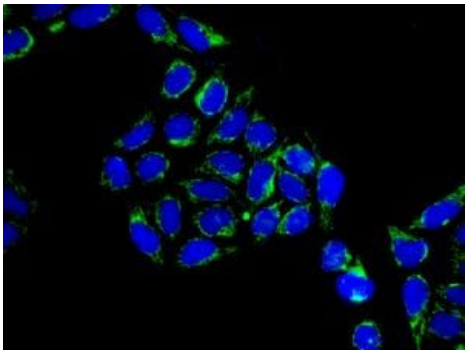
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab176569**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ATP5A antibody [EPR13030(B)] - BSA and Azide free (ab231692)

Immunohistochemical analysis of paraffin-embedded Human fetal heart tissue labeling ATP5A using **ab176569** (unpurified) at a 1/50 dilution.

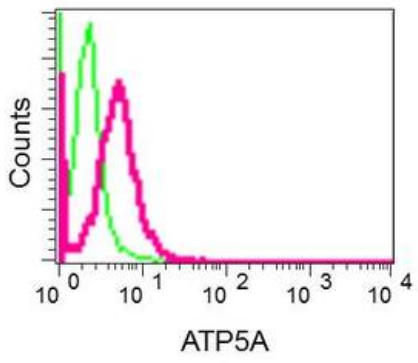
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab176569**).



Immunocytochemistry/ Immunofluorescence - Anti-ATP5A antibody [EPR13030(B)] - BSA and Azide free (ab231692)

Immunofluorescence analysis of MCF7 cells labeling ATP5A using **ab176569** (unpurified) at a 1/100 dilution (green). DAPI nuclear staining (blue).

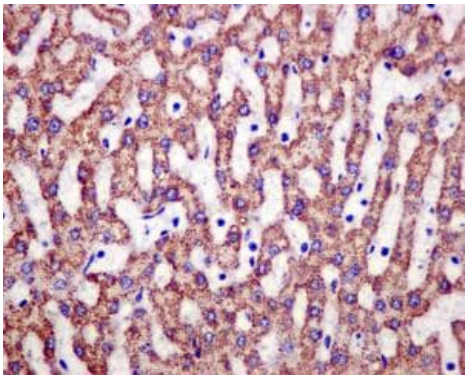
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab176569**).




Flow Cytometry (Intracellular) - Anti-ATP5A antibody [EPR13030(B)] - BSA and Azide free (ab231692)

Intracellular flow cytometric analysis of permeabilized HeLa cells labeling ATP5A using **ab176569** (unpurified) at a 1/10 dilution (red) or a rabbit IgG negative control (green).

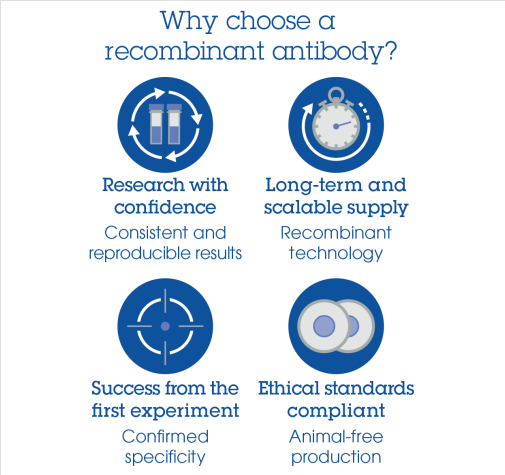
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab176569**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ATP5A antibody [EPR13030(B)] - BSA and Azide free (ab231692)

Immunohistochemical analysis of paraffin-embedded Human liver tissue labeling ATP5A using **ab176569** (unpurified) at a 1/50 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab176569**).




Anti-ATP5A antibody [EPR13030(B)] - BSA and Azide free (ab231692)

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