abcam

Product datasheet

Anti-ATPG antibody [2A1AA11] ab119686

5 References　画像数 4

製品の概要

製品名	Anti-ATPG antibody [2A1AA11]
製品の詳細	Mouse monoclonal [2A1AA11] to ATPG
由来種	Mouse
アプリケーション	**適用あり:** IP, WB, In-Cell ELISA, Flow Cyt, ICC/IF, IHC-P
種交差性	**交差種:** Mouse, Rat, Cow, Human
免疫原	Purified human liver mitochondria
ポジティブ・コントロール	This antibody gave a positive result in IHC in the following FFPE tissue: Human normal heart muscle.
特記事項	This antibody clone is manufactured by Abcam. Product was previously marketed under the MitoSciences sub-brand. If you require this antibody in a particular buffer formulation or a particular conjugate for your experiments, please contact orders@abcam.com or you can find further information here.

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	Preservative: 0.02% Sodium azide Constituent: 99% HEPES buffered saline
精製度	Ammonium Sulphate Precipitation
特記事項（精製）	Purity is near homogeneity as judged by SDS-PAGE. The antibody was produced in vitro using hybridomas grown in serum-free medium, and then concentrated by ammonium sulfate precipitation.
ポリ/モノ	モノクローナル
クローン名	2A1AA11
アイソタイプ	IgG2b
軽鎖の種類	kappa

アプリケーション

Our Abpromise guarantee covers the use of **ab119686** in the following tested applications.

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

アプリケーション	Abreviews	特記事項
IP		Use at an assay dependent concentration.
WB		Use a concentration of 1 µg/ml. Predicted molecular weight: 33 kDa.
In-Cell ELISA		Use a concentration of 1 µg/ml.
Flow Cyt		Use a concentration of 1 µg/ml. ab170192 - Mouse monoclonal IgG2b, is suitable for use as an isotype control with this antibody.
ICC/IF		Use a concentration of 1 µg/ml.
IHC-P		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. Part of the complex F(1) domain and the central stalk which is part of the complex rotary element. The gamma subunit protrudes into the catalytic domain formed of alpha(3)beta(3). 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.

組織特異性

Isoform Heart is expressed specifically in the heart and skeletal muscle, which require rapid energy supply. Isoform Liver is expressed in the brain, liver and kidney. Isoform Heart and Isoform Liver are expressed in the skin, intestine, stomach and aorta.

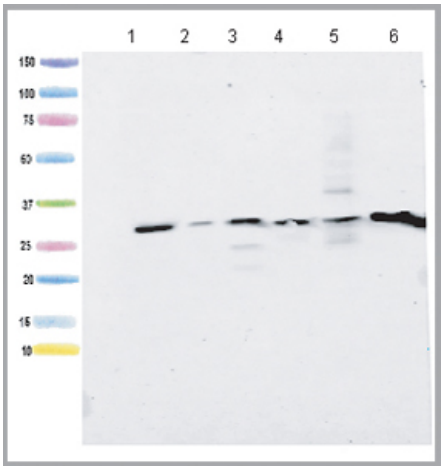
配列類似性

Belongs to the ATPase gamma chain family.

細胞内局在

Mitochondrion. Mitochondrion inner membrane.

画像



Western blot - Anti-ATPG antibody [2A1AA11] (ab119686)

All lanes : Anti-ATPG antibody [2A1AA11] (ab119686) at 1 µg/ml

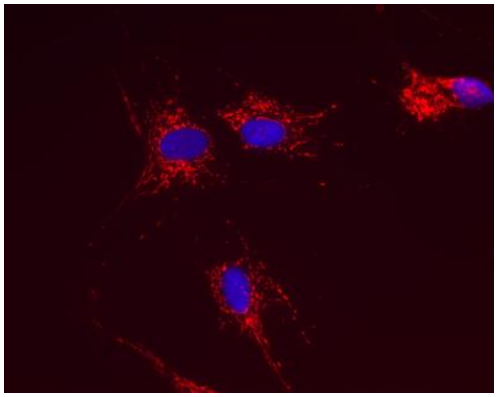
Lane 1 : human heart homogenate lysate at 15 µg
Lane 2 : human HepG2 cell lysate at 15 µg
Lane 3 : human liver mitochondria lysate at 7.5 µg
Lane 4 : rat liver mitochondria lysate at 7.5 µg
Lane 5 : mouse liver mitochondria lysate at 7.5 µg
Lane 6 : bovine heart mitochondria lysate at 7.5 µg

Secondary
All lanes : Goat anti-mouse HRP at 1/5000 dilution

Developed using the ECL technique.

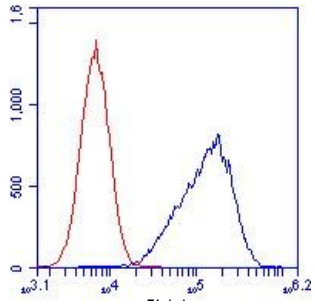
Performed under reducing conditions.

Predicted band size: 33 kDa



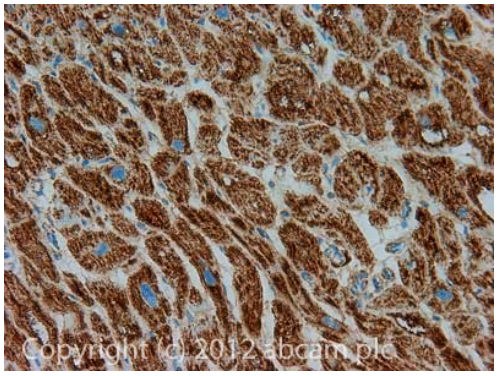
Immunocytochemistry/ Immunofluorescence - Anti-ATPG antibody [2A1AA11] (ab119686)

Immunocytochemistry using ab119686 stained HDFn cells (human). The cells were paraformaldehyde fixed (4%, 20 min) and Triton X-100 permeabilized (0.1%, 15min) with antigen retrieval. The cells were then incubated with the antibody (ab119686, 1µg/ml) for 2h at room temperature or over night at 4°C. The secondary antibody was (red) 594 goat anti-mouse IgG (H+L) used at a 1/1000 dilution for 1h. 10% Goat serum was used as the blocking agent for all blocking steps. The target protein locates to the mitochondria.



Flow Cytometry - Anti-ATPG antibody [2A1AA11] (ab119686)

Flow cytometry. Hela cells were stained with 1µg/mL anti-ATPG antibody (ab119686) (blue) or an equal amount of an isotype control antibody (red) and analyzed by flow cytometry.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ATPG antibody [2A1AA11] (ab119686)

IHC image of ATPG staining in Human normal heart muscle formalin fixed paraffin embedded tissue section, performed on a Leica BondTM 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 ab119686, 5µg/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.

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