

### Anti-ETFA antibody [2B11AE8] ab110316

KO 評価済

8 References 画像数 5

#### 製品の概要

製品名	Anti-ETFA antibody [2B11AE8]
製品の詳細	Mouse monoclonal [2B11AE8] to ETFA
由来種	Mouse
アプリケーション	適用あり: WB, ICC/IF, Flow Cyt, IHC-P
種交差性	交差種: Mouse, Rat, Cow, Human
免疫原	Recombinant full length protein. This information is considered to be commercially sensitive.
ポジティブ・コントロール	ICC: HeLa cells. Flow Cyt: HL-60 cells. IHC-P: Human heart tissue. WB: HepG2 and HEK-293T whole cell lysates; Human liver mitochondria; Bovine heart mitochondria; Rat liver mitochondria; Mouse liver mitochondria.
特記事項	<p>This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact <a href="mailto:orders@abcam.com">orders@abcam.com</a>.</p> <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> <p>Product was previously marketed under the MitoSciences sub-brand.</p>

#### 製品の特性

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: 7.5 Preservative: 0.02% Sodium azide Constituent: HEPES buffered saline
精製度	Proprietary Purification

特記事項 (精製)	The antibody was produced in vitro using hybridomas grown in serum-free medium, and then purified by biochemical fractionation. Purity >95% by SDS-PAGE.
ポリ/モノ	モノクローナル
クローン名	2B11AE8
アイソタイプ	IgG2b
軽鎖の種類	kappa

アプリケーション

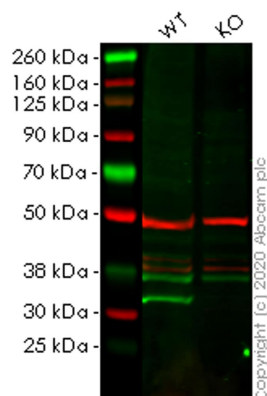
The Abpromise guarantee      Abpromise保証は、次のテスト済みアプリケーションにおけるab110316の使用に適用されます  
 アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB		Use a concentration of 1 µg/ml. Predicted molecular weight: 35 kDa.
ICC/IF		Use a concentration of 4 µg/ml.
Flow Cyt		Use a concentration of 1 µg/ml. <u>ab170192</u> - Mouse monoclonal IgG2b, is suitable for use as an isotype control with this antibody.
IHC-P		Use a concentration of 5 µg/ml.

ターゲット情報

機能	The electron transfer flavoprotein serves as a specific electron acceptor for several dehydrogenases, including five acyl-CoA dehydrogenases, glutaryl-CoA and sarcosine dehydrogenase. It transfers the electrons to the main mitochondrial respiratory chain via ETF-ubiquinone oxidoreductase (ETF dehydrogenase).
関連疾患	Glutaric aciduria 2A
配列類似性	Belongs to the ETF alpha-subunit/FixB family.
ドメイン	Domain I shares an identical polypeptide fold with the beta subunit ETFB though there is no sequence similarity.
翻訳後修飾	The N-terminus is blocked.
細胞内局在	Mitochondrion matrix.

画像



Western blot - Anti-ETFA antibody [2B11AE8] (ab110316)

**All lanes :** Anti-ETFA antibody [2B11AE8] (ab110316) at 1/1000 dilution

**Lane 1 :** Wild-type HEK-293T (Human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell lysate

**Lane 2 :** ETFA knockout HEK-293T (Human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell lysate

Lysates/proteins at 40 µg per lane.

### Secondary

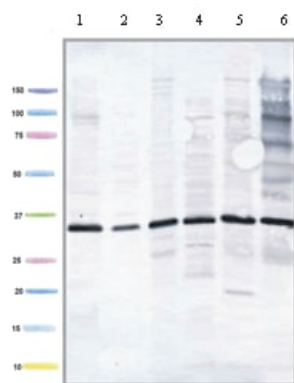
**All lanes :** Goat Anti-Rabbit IgG H&L (IRDye® 680RD) preadsorbed ([ab216777](#)) at 1/10000 dilution

**Predicted band size:** 35 kDa

**Observed band size:** 35 kDa

**Lanes 1-2:** Merged signal (red and green). Green - ab110316 observed at 35 kDa. Red - loading control [ab52901](#) observed at kDa.

ab110316 Anti-ETFA antibody [2B11AE8] was shown to specifically react with ETFA in wild-type HEK-293T cells. Loss of signal was observed when knockout cell line [ab266513](#) (knockout cell lysate [ab257943](#)) was used. Wild-type and ETFA knockout samples were subjected to SDS-PAGE. ab110316 and Anti-beta Tubulin [EP1331Y] - Microtubule Marker ([ab52901](#)) were incubated overnight at 4°C at 1 in 1000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 680RD) preadsorbed ([ab216777](#)) and Goat anti-Mouse IgG H&L (IRDye® 800CW) preadsorbed ([ab216772](#)) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-ETFA antibody [2B11AE8] (ab110316)

**All lanes :** Anti-ETFA antibody [2B11AE8] (ab110316) at 1 µg/ml

**Lane 1 :** Human heart tissue

**Lane 2 :** HepG2 whole cells

**Lane 3 :** Human liver mitochondria

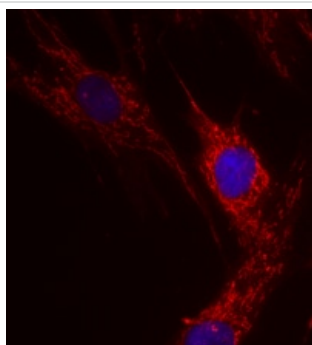
**Lane 4 :** Bovine heart mitochondria

**Lane 5 :** Rat liver mitochondria

**Lane 6 :** Mouse liver mitochondria

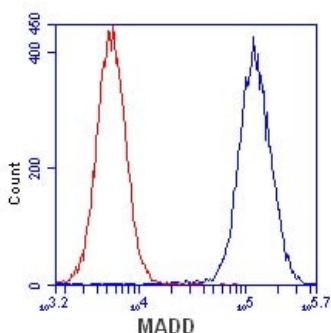
Lysates/proteins at 10 µg per lane.

**Predicted band size:** 35 kDa



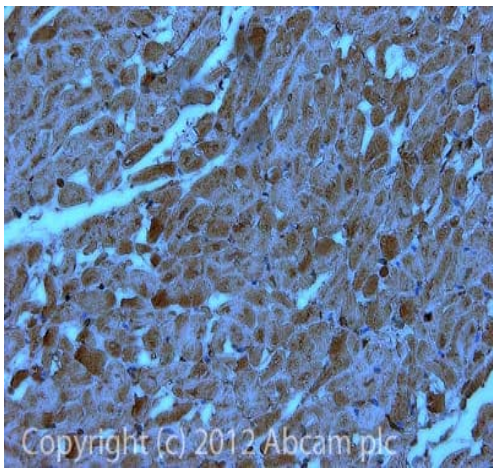
Immunocytochemistry/ Immunofluorescence - Anti-ETFA antibody [2B11AE8] (ab110316)

Immunocytochemistry image of stained HeLa cells. The cells were paraformaldehyde fixed (4%, 20 minutes) and Triton X-100 permeabilized (0.1%, 15 minutes). The cells were incubated with the antibody (ab110316, 4 µg/mL) for 2 hours at room temperature or over night at 4°C. The secondary antibody was (red) Alexa Fluor® 594 goat anti-mouse IgG (H+L) at a 1/1000 dilution for 1 hour. 10% Goat serum was used as the blocking agent for all blocking steps. The target protein locates to the mitochondrial matrix



Flow Cytometry - Anti-ETFA antibody [2B11AE8] (ab110316)

HL-60 cells were stained with 1 µg/mL ab110316 (blue) or an equal amount of an isotype control antibody (red) and analyzed by flow cytometry.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ETFA antibody [2B11AE8] (ab110316)

IHC image of ETFA staining in Human heart formalin fixed paraffin embedded tissue section, performed on a Leica Bond<sup>TM</sup> 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 ab110316, 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.

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