


Anti-COX IV antibody [20E8C12] ab14744

★★★★★ [23 Abreviews](#) [310 References](#) [画像数 3](#)

製品の概要

製品名	Anti-COX IV antibody [20E8C12]
製品の詳細	Mouse monoclonal [20E8C12] to COX IV
由来種	Mouse
アプリケーション	適用あり: Flow Cyt, WB
種交差性	交差種: Mouse, Rat, Cow, Human 交差が予測される動物種: Pig 
免疫原	Tissue, cells or virus corresponding to Cow COX IV.
ポジティブ・コントロール	Human, bovine, murine and rat heart mitochondria.
特記事項	<p>This antibody makes an effective loading control for mitochondria. COXIV is generally expressed at a consistent high level. However, be aware that many proteins run at the same 16kD size as COXIV - our VDAC1 / Porin antibody makes a good alternative mitochondrial loading control for proteins of this size. Some caution is required when using this antibody as a loading control as COXIV expression can vary under some manipulations. An alternative mitochondrial loading control is Rabbit polyclonal to COX IV antibody (ab16056).</p> <p>This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact orders@abcam.com.</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&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.
バッファー	pH: 7.4 Preservative: 0.02% Sodium azide Constituent: HEPES buffered saline

精製度	IgG fraction
一次抗体 備考	This antibody makes an effective loading control for mitochondria. COXIV is generally expressed at a consistent high level. However, be aware that many proteins run at the same 16kD size as COXIV - our VDAC1 / Porin antibody makes a good alternative mitochondrial loading control for proteins of this size. Some caution is required when using this antibody as a loading control as COXIV expression can vary under some manipulations. An alternative mitochondrial loading control is Rabbit polyclonal to COX IV antibody (ab16056).
ポリ/モノ	モノクローナル
クローン名	20E8C12
アイソタイプ	IgG2a
軽鎖の種類	kappa

アプリケーション

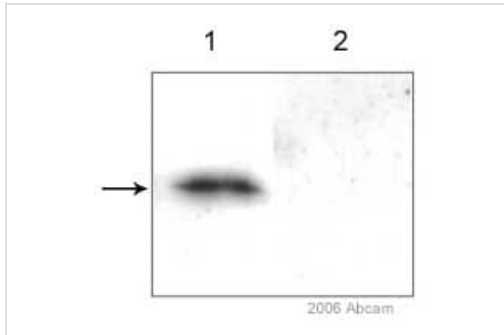
The Abpromise guarantee **Abpromise保証は、次のテスト済みアプリケーションにおけるab14744の使用に適用されます**
 アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
Flow Cyt		Use 0.5µg for 10 ⁶ cells. ab170191 - Mouse monoclonal IgG2a, is suitable for use as an isotype control with this antibody.
WB	★★★★★ (18)	Use a concentration of 1 µg/ml. Detects a band of approximately 17 kDa.

ターゲット情報

機能	This protein is one of the nuclear-coded polypeptide chains of cytochrome c oxidase, the terminal oxidase in mitochondrial electron transport.
組織特異性	Ubiquitous.
配列類似性	Belongs to the cytochrome c oxidase IV family.
細胞内局在	Mitochondrion inner membrane.

画像



Western blot - Anti-COX IV antibody [20E8C12]
(ab14744)

All lanes : Anti-COX IV antibody [20E8C12] (ab14744) at 1/5000 dilution

Lane 1 : Cytoplasmic fraction mouse NIH/3T3 cell lysate

Lane 2 : Nuclear fraction mouse NIH/3T3 cell lysate

Secondary

All lanes : HRP conjugated goat anti-mouse antibody

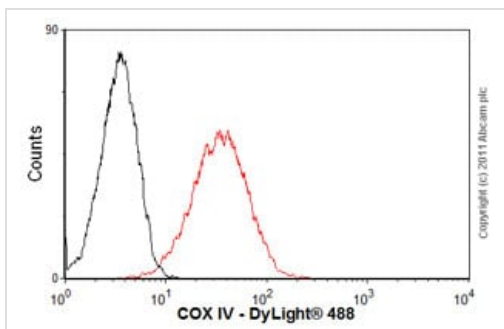
Developed using the ECL technique.

Performed under reducing conditions.

Observed band size: 16 kDa

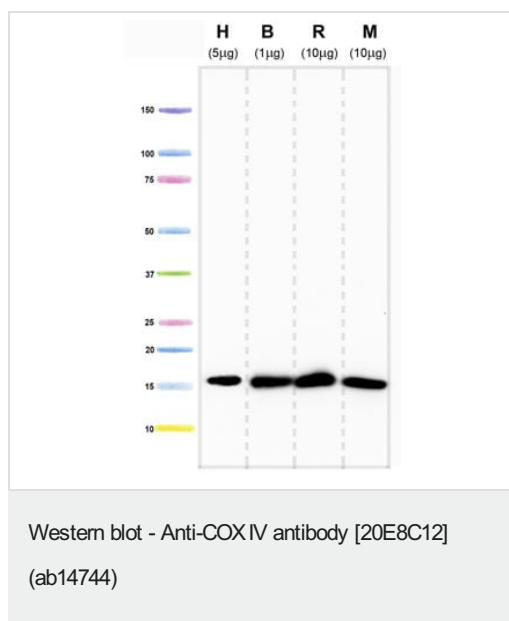
Exposure time: 3 minutes

This image is courtesy of an Abreview submitted by **Camilla Skjerpen** on **4 July 2005**.



Flow Cytometry - Anti-COX IV antibody [20E8C12]
(ab14744)

Overlay histogram showing HeLa cells stained with ab14744 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab14744, 0.5µg/1x10⁶ cells) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) ([ab96879](#)) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG1 [ICIGG1]([ab91353](#), 2µg/1x10⁶ cells) used under the same conditions. Acquisition of >5,000 events was performed.



All lanes : Anti-COX IV antibody [20E8C12] (ab14744) at 1 µg/ml

Lane 1 : Isolated mitochondria from human heart at 5 µg

Lane 2 : Isolated mitochondria from bovine heart at 1 µg

Lane 3 : Isolated mitochondria from rat heart at 10 µg

Lane 4 : Isolated mitochondria from murine heart at 10 µg

Observed band size: 16 kDa

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