


Anti-COX IV antibody [20E8C12] ab14744

★★★★★ [23 Abreviews](#) [310 References](#) [3 图像](#)

概述

产品名称	Anti-COX IV抗体[20E8C12]
描述	小鼠单克隆抗体[20E8C12] to COX IV
宿主	Mouse
经测试应用	适用于: Flow Cyt, WB
种属反应性	与反应: Mouse, Rat, Cow, Human 预测可用于: Pig 
免疫原	Tissue, cells or virus corresponding to Cow COX IV.
阳性对照	Human, bovine, murine and rat heart mitochondria.
常规说明	<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>

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C.
存储溶液	pH: 7.4 Preservative: 0.02% Sodium azide Constituent: HEPES buffered saline

纯度	IgG fraction
Primary antibody说明	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).
克隆	单克隆
克隆编号	20E8C12
同种型	IgG2a
轻链类型	kappa

应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab14744于以下的经测试应用

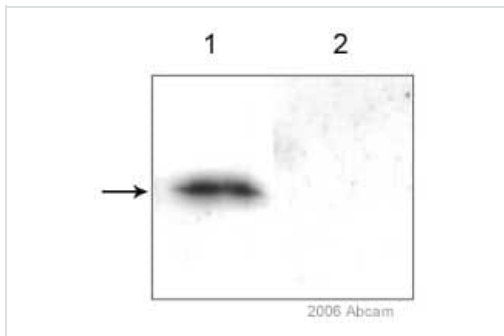
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
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.

靶标

功能	This protein is one of the nuclear-coded polypeptide chains of cytochrome c oxidase, the terminal oxidase in mitochondrial electron transport.
组织特异性	Ubiquitous.
序列相似性	Belongs to the cytochrome c oxidase IV family.
细胞定位	Mitochondrion inner membrane.

图片



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

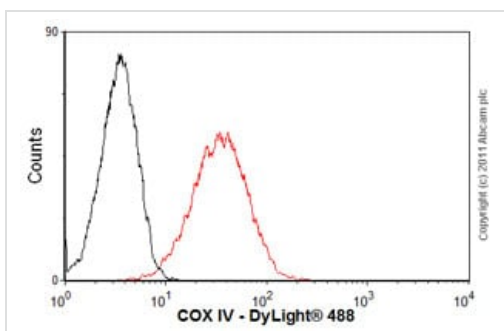
Developed using the ECL technique.

Performed under reducing conditions.

Observed band size: 16 kDa

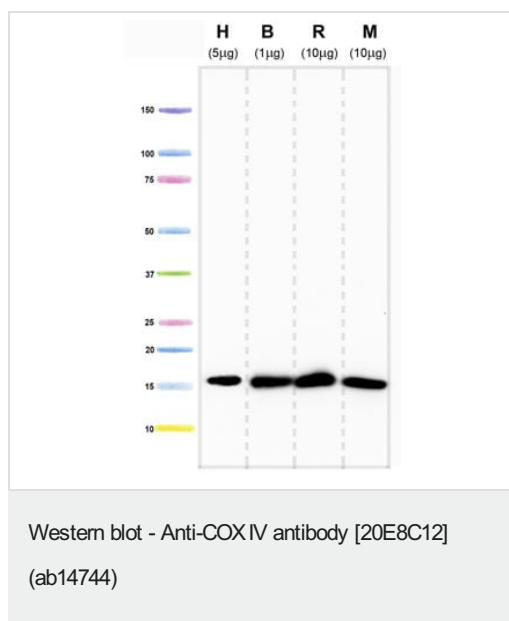
Exposure time: 3 minutes

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

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

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