


Anti-COX IV antibody [mAbcam33985] - Mitochondrial Marker ab33985

★★★★★ [25 Abreviews](#) [109 References](#) [7 图像](#)

概述

产品名称	Anti-COX IV抗体[mAbcam33985] - Mitochondrial Marker
描述	小鼠单克隆抗体[mAbcam33985] to COX IV - Mitochondrial Marker
宿主	Mouse
经测试应用	适用于: WB, Flow Cyt (Intra), ICC/IF
种属反应性	与反应: Mouse, Cow, Human, Xenopus laevis 预测可用于: Rat, Sheep, Chimpanzee, Monkey, Zebrafish, African green monkey, Chinese hamster, Drosophila C virus 
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: Jurkat and HepG2 whole cell lysates and human skeletal muscle, mouse skeletal muscle and cow kidney tissue lysates. ICC/IF: HeLa cells; Flow Cyt (Intra): HeLa cells.
常规说明	<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 short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
存储溶液	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: PBS, 6.97% L-Arginine
纯度	Protein G purified

克隆	单克隆
克隆编号	mAbcam33985
骨髓瘤	Sp2
同种型	IgG1

应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab33985于以下的经测试应用

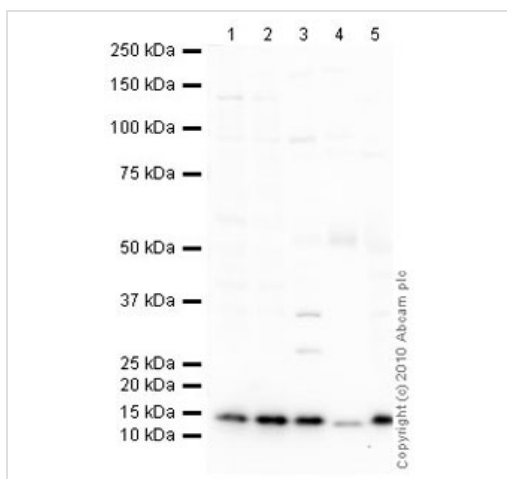
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB	★★★★★ (13)	Use a concentration of 1 µg/ml. Detects a band of approximately 15 kDa (predicted molecular weight: 15 kDa).
Flow Cyt (Intra)		Use 1µg for 10 ⁶ cells. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.
ICC/IF	★★★★☆ (9)	Use a concentration of 1 µg/ml.

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
[mAbcam33985] - Mitochondrial Marker (ab33985)

All lanes : Anti-COX IV antibody [mAbcam33985] - Mitochondrial Marker (ab33985) at 1 µg/ml

Lane 1 : Jurkat (Human T cell lymphoblast-like cell line) Whole Cell Lysate

Lane 2 : HepG2 (Human hepatocellular liver carcinoma cell line) Whole Cell Lysate

Lane 3 : Human skeletal muscle tissue lysate - total protein (**ab29330**)

Lane 4 : Skeletal Muscle (Mouse) Tissue Lysate

Lane 5 : Kidney (Cow) Tissue Lysate (**ab29073**)

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat polyclonal to Mouse IgG - H&L - Pre-Adsorbed (HRP) at 1/3000 dilution

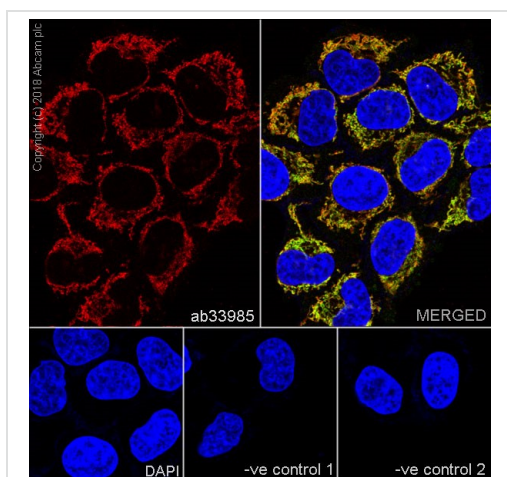
Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 15 kDa

Observed band size: 15 kDa

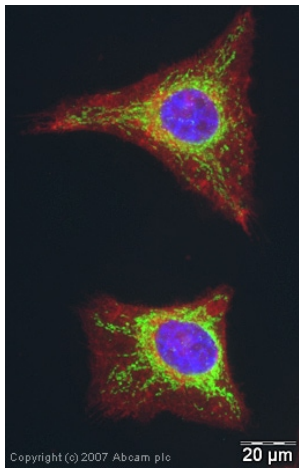
Exposure time: 1 minute



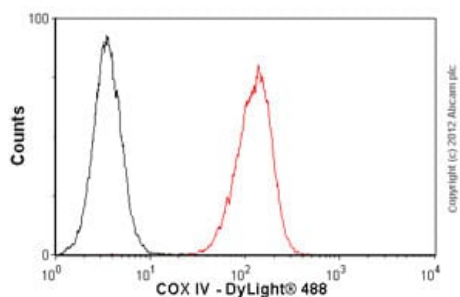
Immunocytochemistry/ Immunofluorescence - Anti-COX IV antibody [mAbcam33985] - Mitochondrial Marker (ab33985)

Ab33985 staining COX IV in HeLa (Human cervix adenocarcinoma epithelial cell) cells by ICC/IF

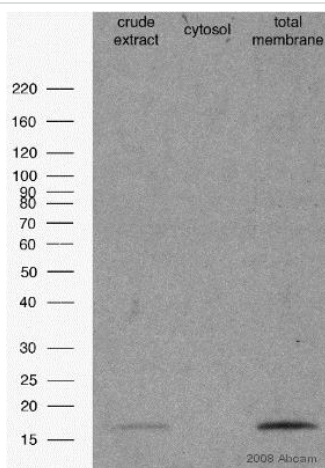
(Immunocytochemistry/Immunofluorescence). Cells were fixed with 4% paraformaldehyde and permeabilized with 0.1% TritonX-100. Samples were incubated with primary antibody at 1:1000 dilution (1µg/ml). An Alexa Fluor®594 Goat anti-mouse (**ab150120**) was used as a secondary antibody at 1:1000 dilution (2 µg/ml). Cells were counterstained with anti-Cyclophilin F (**ab231155**, 5.5µg/ml) and AlexaFluor®488 Goat anti-Rabbit (**ab150077**, 2µg/ml). DAPI was used as a nuclear counterstain. Ab33985 was used for negative control 1 at 1:1000 dilution (1µg/ml). For negative control 2, **ab231155** was used at a 1:100 dilution (5.5µg/ml) and **ab150129** was used as a secondary antibody at 1:1000 dilution (2µg/ml). Confocal image showing mitochondrial staining in HeLa cell line.



Immunocytochemistry/ Immunofluorescence - Anti-COX IV antibody [mAbcam33985] - Mitochondrial Marker (ab33985)



Flow Cytometry (Intracellular) - Anti-COX IV antibody [mAbcam33985] - Mitochondrial Marker (ab33985)



Western blot - Anti-COX IV antibody [mAbcam33985] - Mitochondrial Marker (ab33985)

This image is courtesy of an Abreview submitted by Dr Anne-Lore Schlaitz

ICC/IF image of ab33985 stained human HeLa cells. The cells were PFA fixed (10 min), permeabilised in TBS-T (20 min) and incubated with the antibody (ab33985, 1 μg/ml) for 1h at room temperature. 1%BSA / 10% normal serum / 0.3M glycine was used to quench autofluorescence and block non-specific protein-protein interactions. The secondary antibody (green) was Alexa Fluor® 488 goat anti-mouse IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red). DAPI was used to stain the cell nuclei (blue).

Overlay histogram showing HeLa cells stained with ab33985 (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 (ab33985, 1 μg/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 [CIGG1] ([ab91353](#), 2 μg/1x10⁶ cells) used under the same conditions. Acquisition of >5,000 events was performed.

All lanes : Anti-COX IV antibody [mAbcam33985] - Mitochondrial Marker (ab33985) at 1/1000 dilution

Lane 1 : Crude extract prepared from *Xenopus laevis* egg

Lane 2 : Cytosol lysate prepared from *Xenopus laevis* egg extract

Lane 3 : Total membrane lysate prepared from *Xenopus laevis* egg extract

Lysates/proteins at 15 μg per lane.

Secondary

All lanes : HRP conjugated donkey anti-mouse IgG at 1/4000 dilution

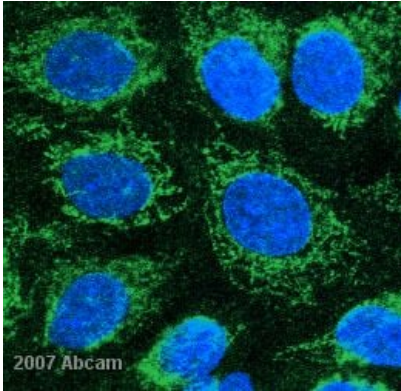
Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 15 kDa

Observed band size: 15 kDa

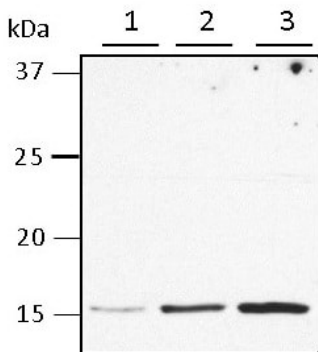
Exposure time: 90 minutes



Immunocytochemistry/ Immunofluorescence - Anti-COX IV antibody [mAbcam33985] - Mitochondrial Marker (ab33985)

This image is courtesy of an anonymous Abreview

ab33985 staining COX IV in human proximal tubular epithelial cells by ICC/IF (Immunocytochemistry/immunofluorescence). Cells were fixed with paraformaldehyde, permeabilized with 0.5% Triton X-100 in PBS and blocked with 3% BSA for 15 minutes at 20°C. Samples were incubated with primary antibody (1/200 in PBS) for 45 minutes at 20°C. **ab6785**, a FITC-conjugated goat anti-mouse IgG (H+L) polyclonal was used as the secondary antibody (1/1000).



2018 Abcam

Western blot - Anti-COX IV antibody [mAbcam33985] - Mitochondrial Marker (ab33985)

This image is courtesy of an anonymous Abreview

All lanes : Anti-COX IV antibody [mAbcam33985] - Mitochondrial Marker (ab33985) at 1/1000 dilution

All lanes : cow liver membrane with Milk

Lysates/proteins at 15 µg per lane.

Blocking peptides at 1.5 % per lane.

Secondary

All lanes : Goat Anti-mouse IgG HRP at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 15 kDa

Exposure time: 17 hours

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