

### Anti-MTCO2 antibody [12C4F12] ab110258

★★★★★ [18 Abreviews](#) [219 References](#) [3 图像](#)

#### 概述

产品名称	Anti-MTCO2抗体[12C4F12]
描述	小鼠单克隆抗体[12C4F12] to MTCO2
宿主	Mouse
经测试应用	适用于: WB, ICC/IF, Flow Cyt
种属反应性	与反应: Human
免疫原	Full length native protein (purified). This information is considered to be commercially sensitive.
阳性对照	WB: Mitochondrial lysate from human heart tissue. ICC/IF: Cultured human embryonic lung derived fibroblasts. Flow Cyt: 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 <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>

#### 性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C.
存储溶液	<p>pH: 7.5</p> <p>Preservative: 0.02% Sodium azide</p> <p>Constituent: HEPES buffered saline</p>
纯度	IgG fraction
纯化说明	ab110258 was produced in vitro using hybridomas grown in serum-free medium, and then purified by biochemical fractionation. ab110258 was judged near homogeneity by SDS-PAGE.
克隆	单克隆

克隆编号	12C4F12
同种型	IgG2a
轻链类型	kappa

应用

**The Abpromise guarantee**      **Abpromise™**承诺保证使用ab110258于以下的经测试应用

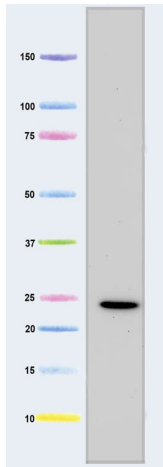
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB	★★★★★ (11)	Use a concentration of 1 µg/ml. Predicted molecular weight: 26 kDa.
ICC/IF	★★★★★ (2)	Use a concentration of 5 - 10 µg/ml. (heat-induced antigen-retrieval improves signal)
Flow Cyt		Use a concentration of 1 µg/ml. <b>ab170191</b> - Mouse monoclonal IgG2a, is suitable for use as an isotype control with this antibody.

靶标

功能	Cytochrome c oxidase is the component of the respiratory chain that catalyzes the reduction of oxygen to water. Subunits 1-3 form the functional core of the enzyme complex. Subunit 2 transfers the electrons from cytochrome c via its binuclear copper A center to the bimetallic center of the catalytic subunit 1.
疾病相关	Defects in MT-CO2 are a cause of mitochondrial complex IV deficiency (MT-C4D) [MIM:220110]; also known as cytochrome c oxidase deficiency. A disorder of the mitochondrial respiratory chain with heterogeneous clinical manifestations, ranging from isolated myopathy to severe multisystem disease affecting several tissues and organs. Features include hypertrophic cardiomyopathy, hepatomegaly and liver dysfunction, hypotonia, muscle weakness, excercise intolerance, developmental delay, delayed motor development and mental retardation. A subset of patients manifest Leigh syndrome.
序列相似性	Belongs to the cytochrome c oxidase subunit 2 family.
细胞定位	Mitochondrion inner membrane.

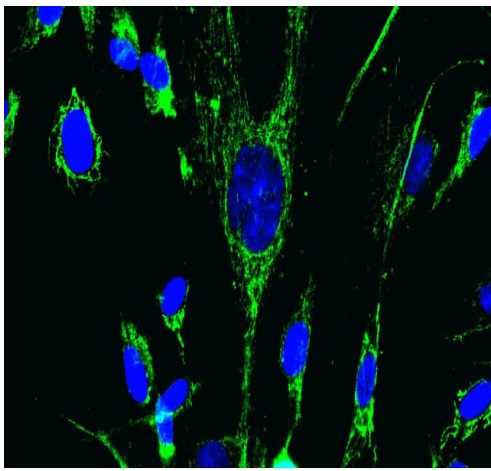
图片



Western blot - Anti-MTCO2 antibody [12C4F12] (ab110258)

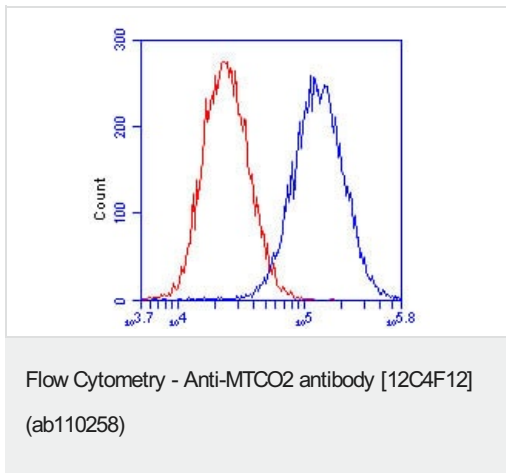
Anti-MTCO2 antibody [12C4F12] (ab110258) at 1 µg/ml +  
Mitochondrial lysate from human heart tissue at 5 µg

**Predicted band size:** 26 kDa



Immunocytochemistry/ Immunofluorescence - Anti-MTCO2 antibody [12C4F12] (ab110258)

Immunocytochemistry/Immunofluorescence analysis of human embryonic lung derived fibroblasts (MRC5) labelling Cytochrome C oxidase subunit II with ab110258 at 5 µg/ml. An Alexa Fluor® 488-conjugated goat anti-mouse IgG2a isotype specific secondary antibody was used at 2 µg/ml.



ab110258, at 1 µg/ml, staining Cytochrome C oxidase subunit II in HeLa cells by Flow Cytometry (Blue).

An isotype control antibody, at 1 µg/ml, staining in HeLa cells (Red).

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

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