

## Product datasheet

# Anti-Cytochrome C Oxidase subunit VIc/COX6C antibody [3G5F7G3] ab110267

[8 References](#) [3 Images](#)

### Overview

<b>Product name</b>	Anti-Cytochrome C Oxidase subunit VIc/COX6C antibody [3G5F7G3]
<b>Description</b>	Mouse monoclonal [3G5F7G3] to Cytochrome C Oxidase subunit VIc/COX6C
<b>Host species</b>	Mouse
<b>Tested applications</b>	<b>Suitable for:</b> ICC/IF, Flow Cyt, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Rat, Cow, Human
<b>Immunogen</b>	Full length native protein (purified). This information is considered to be commercially sensitive.
<b>Positive control</b>	Isolated mitochondria from Human heart, bovine heart, and rat heart. IF/ICC: HeLa cell line
<b>General notes</b>	<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>

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C. Do Not Freeze.
<b>Storage buffer</b>	<p>pH: 7.5</p> <p>Preservative: 0.02% Sodium azide</p> <p>Constituent: HEPES buffered saline</p>
<b>Purification notes</b>	Near homogeneity as judged by SDS-PAGE. ab110267 was produced in vitro using hybridomas grown in serum-free medium, and then purified by biochemical fractionation.
<b>Clonality</b>	Monoclonal

Clone number	3G5F7G3
Isotype	IgG2b
Light chain type	kappa

## Applications

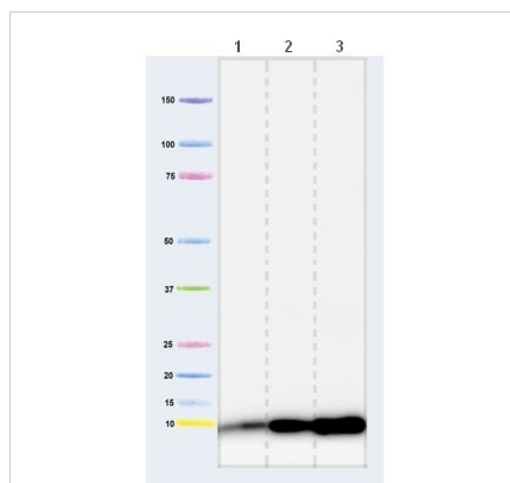
**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab110267 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		Use a concentration of 5 µg/ml.
Flow Cyt		Use 1 µg for 10 <sup>6</sup> cells. <b>ab170192</b> - Mouse monoclonal IgG2b, is suitable for use as an isotype control with this antibody.
WB		Use a concentration of 2 µg/ml. Predicted molecular weight: 9 kDa.

## Target

<b>Function</b>	This protein is one of the nuclear-coded polypeptide chains of cytochrome c oxidase, the terminal oxidase in mitochondrial electron transport.
<b>Sequence similarities</b>	Belongs to the cytochrome c oxidase subunit 6c family.
<b>Cellular localization</b>	Mitochondrion inner membrane.

## Images



Western blot - Anti-Cytochrome C Oxidase subunit Vlc/COX6C antibody [3G5F7G3] (ab110267)

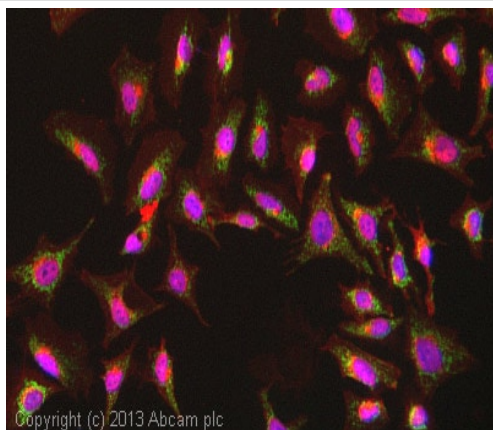
**All lanes :** Anti-Cytochrome C Oxidase subunit Vlc/COX6C antibody [3G5F7G3] (ab110267) at 2 µg/ml

**Lane 1 :** Isolated mitochondria from Human heart at 50 µg

**Lane 2 :** Isolated mitochondria from Bovine heart at 1 µg

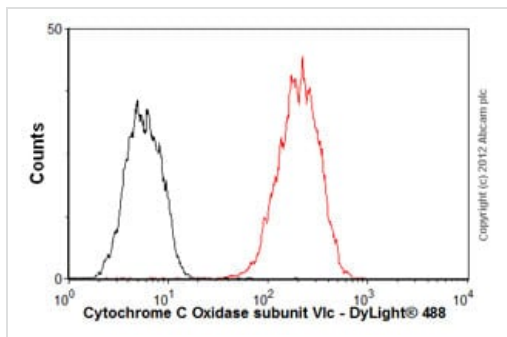
**Lane 3 :** Isolated mitochondria from Rat heart at 10 µg

**Predicted band size:** 9 kDa



Immunocytochemistry/ Immunofluorescence - Anti-Cytochrome C Oxidase subunit Vlc/COX6C antibody [3G5F7G3] (ab110267)

ICC/IF image of ab110267 stained HeLa cells. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab110267, 5µg/ml) overnight at +4°C. The secondary antibody (green) was **ab96879**, DyLight® 488 goat anti-mouse IgG (H+L) used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.



Flow Cytometry - Anti-Cytochrome C Oxidase subunit Vlc/COX6C antibody [3G5F7G3] (ab110267)

Overlay histogram showing HepG2 cells stained with ab110267 (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. The cells were then incubated with the antibody (ab110267, 1µg/1x10<sup>6</sup> 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 IgG2b [PLPV219] (**ab91366**, 2µg/1x10<sup>6</sup> cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive signal in HepG2 cells fixed with 4% paraformaldehyde (10 min)/permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.

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

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