

Product datasheet

Anti-Ubiquinol-Cytochrome C Reductase Core Protein I antibody [16D10AD9AH5] ab110252

★★★★★ 1 Abreviews 45 References 3 Images

Overview

Product name	Anti-Ubiquinol-Cytochrome C Reductase Core Protein I antibody [16D10AD9AH5]
Description	Mouse monoclonal [16D10AD9AH5] to Ubiquinol-Cytochrome C Reductase Core Protein I
Host species	Mouse
Tested applications	Suitable for: Flow Cyt, ICC/IF, WB
Species reactivity	Reacts with: Mouse, Rat, Cow, Human
Immunogen	Bovine Ubiquinol-Cytochrome C Reductase Core Protein I protein.
Positive control	Human, Cow, Rat or Mouse heart mitochondrial lysate, HepG2 mitochondrial lysate. This antibody gave a positive result when used in the following methanol fixed cell lines: HCT116
General notes	This antibody clone is manufactured by Abcam. Product was previously marketed under the MitoSciences sub-brand.

If you require this antibody in a particular buffer formulation or a particular conjugate for your experiments, please contact orders@abcam.com or you can find further information [here](#).

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	Preservative: 0.02% Sodium azide Constituent: HBS
Purity	IgG fraction
Purification notes	ab110252 is produced in vitro using hybridomas grown in serum-free medium, and then purified by biochemical fractionation.
Clonality	Monoclonal
Clone number	16D10AD9AH5
Isotype	IgG1
Light chain type	kappa

Applications

Our [Abpromise guarantee](#) covers the use of **ab110252** 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
Flow Cyt		Use 1µg for 10 ⁶ cells. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.
ICC/IF		1/50.
WB	★★★★★	Use a concentration of 0.5 µg/ml. Predicted molecular weight: 53 kDa.

Target

Function

This is a component of the ubiquinol-cytochrome c reductase complex (complex III or cytochrome b-c1 complex), which is part of the mitochondrial respiratory chain. This protein may mediate formation of the complex between cytochromes c and c1.

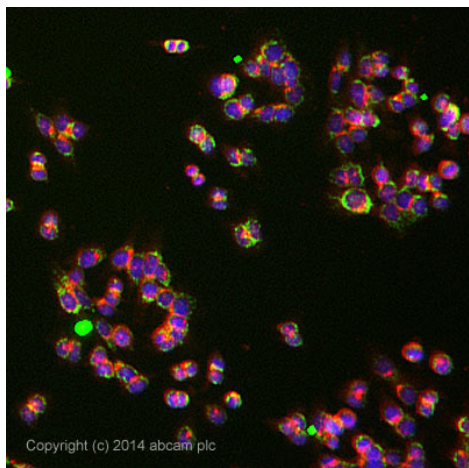
Sequence similarities

Belongs to the peptidase M16 family. UQCRC1/QCR1 subfamily.

Cellular localization

Mitochondrion inner membrane.

Images



Immunocytochemistry/ Immunofluorescence - Anti-Ubiquinol-Cytochrome C Reductase Core Protein I antibody [16D10AD9AH5] (ab110252)

ab110252 stained HCT116 cells. The cells were 100% methanol fixed for 5 minutes at room temperature and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1hour at room temperature to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab110252 at 1/50 dilution) overnight at +4°C. The secondary antibody (pseudo-colored green) was ab150117 used at a 1/1000 dilution for 1hour at room temperature. Alexa Fluor® 594 WGA was used to label plasma membranes (pseudo-colored red) at a 1/200 dilution for 1hour at room temperature. DAPI was used to stain the cell nuclei (pseudo-colored blue) at a concentration of 1.43µM for 1hour at room temperature.



Western blot - Anti-Ubiquinol-Cytochrome C Reductase Core Protein I antibody [16D10AD9AH5] (ab110252)

All lanes : Anti-Ubiquinol-Cytochrome C Reductase Core Protein I antibody [16D10AD9AH5] (ab110252) at 0.5 µg/ml

Lane 1 : Human heart mitochondrial lysate

Lane 2 : Cow heart mitochondrial lysate

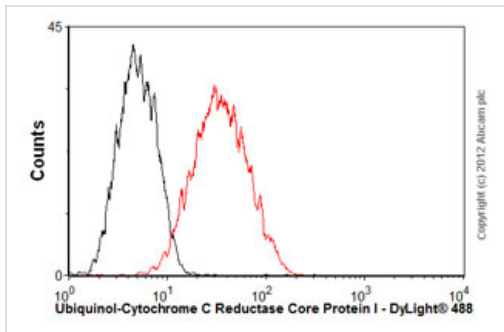
Lane 3 : Rat heart mitochondrial lysate

Lane 4 : Mouse heart mitochondrial lysate

Lane 5 : HepG2 mitochondrial lysate

Predicted band size: 53 kDa

Extra bands in the Mouse sample (lane 4) are due to the reaction of the IgG-specific goat anti-mouse secondary antibody with residual mouse blood in the heart tissue, as it is very difficult to entirely remove the blood from these small organs.



Flow Cytometry - Anti-Ubiquinol-Cytochrome C Reductase Core Protein I antibody [16D10AD9AH5] (ab110252)

Overlay histogram showing HepG2 cells stained with ab110252 (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 (ab110252, 1µg/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.

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