


## Product datasheet

# HRP Anti-Ubiquinol-Cytochrome C Reductase Core Protein I antibody [16D10AD9AH5] ab197968

3 Images

### Overview

<b>Product name</b>	HRP Anti-Ubiquinol-Cytochrome C Reductase Core Protein I antibody [16D10AD9AH5]
<b>Description</b>	HRP Mouse monoclonal [16D10AD9AH5] to Ubiquinol-Cytochrome C Reductase Core Protein I
<b>Host species</b>	Mouse
<b>Conjugation</b>	HRP
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse, Rat, Cow 
<b>Immunogen</b>	Full length native protein (purified) corresponding to Cow Ubiquinol-Cytochrome C Reductase Core Protein I.
<b>Positive control</b>	WB: Human heart mitochondrial lysate and HepG2 whole cell lysate. IHC-P: Normal human colon tissue.
<b>General notes</b>	<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>

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle. Store In the Dark.
<b>Storage buffer</b>	pH: 7.40 Preservative: 0.1% Proclin 300 Solution Constituents: 30% Glycerol (glycerin, glycerine), 1% BSA, PBS
<b>Purity</b>	IgG fraction
<b>Purification notes</b>	ab197968 is produced in vitro using hybridomas grown in serum-free medium, and then purified

	by biochemical fractionation.
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	16D10AD9AH5
<b>Isotype</b>	IgG1
<b>Light chain type</b>	kappa

## Applications

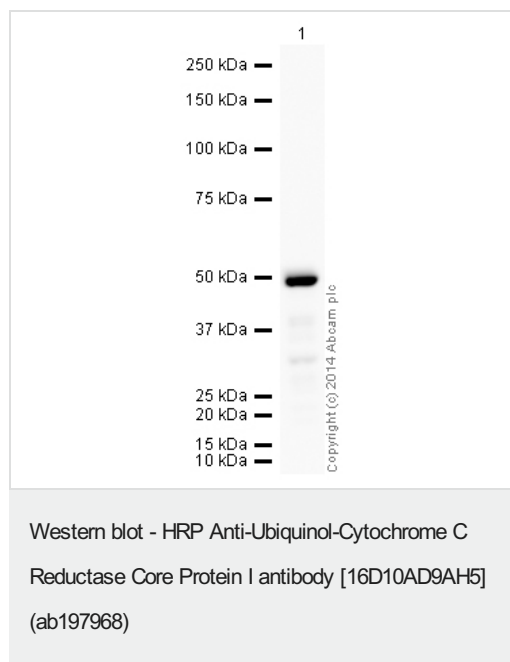
**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab197968 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
<b>WB</b>		1/5000. Detects a band of approximately 49 kDa (predicted molecular weight: 53 kDa).
<b>IHC-P</b>		1/100. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

## Target

<b>Function</b>	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.
<b>Sequence similarities</b>	Belongs to the peptidase M16 family. UQCRC1/QCR1 subfamily.
<b>Cellular localization</b>	Mitochondrion inner membrane.

## Images



HRP Anti-Ubiquinol-Cytochrome C Reductase Core Protein I antibody [16D10AD9AH5] (ab197968) at 1/5000 dilution + Human heart tissue lysate - mitochondrial extract ([ab110337](#)) at 10 µg

Developed using the ECL technique.

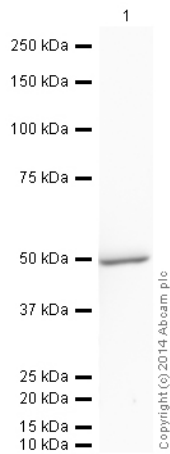
Performed under reducing conditions.

**Predicted band size:** 53 kDa

**Observed band size:** 49 kDa

**Exposure time:** 18 seconds

This blot was produced using a 4-12% Bis-tris gel under the MOPS buffer system. The gel was run at 200V for 50 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using 3% milk before being incubated with ab197968 overnight at 4°C. Antibody binding was visualised using ECL development solution [ab133406](#).



Western blot - HRP Anti-Ubiquinol-Cytochrome C Reductase Core Protein I antibody [16D10AD9AH5] (ab197968)

HRP Anti-Ubiquinol-Cytochrome C Reductase Core Protein I antibody [16D10AD9AH5] (ab197968) at 1/5000 dilution + HepG2 (Human hepatocellular liver carcinoma cell line) Whole Cell Lysate at 20 µg

Developed using the ECL technique.

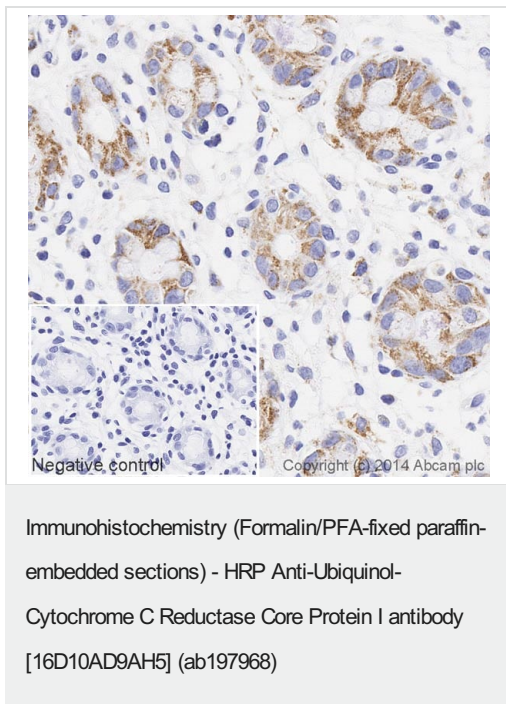
Performed under reducing conditions.

**Predicted band size:** 53 kDa

**Observed band size:** 49 kDa

**Exposure time:** 4 minutes

This blot was produced using a 4-12% Bis-tris gel under the MOPS buffer system. The gel was run at 200V for 50 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using 3% milk before being incubated with ab197968 overnight at 4°C. Antibody binding was visualised using ECL development solution [ab133406](#).



IHC image of Ubiquinol-Cytochrome C Reductase Core Protein I staining in a section of formalin-fixed paraffin-embedded normal human colon\*, performed on a Leica BOND. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab197968, 1/100 dilution, for 15 mins at room temperature. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX. The inset negative control image is taken from an identical assay without primary antibody.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

\*Tissue obtained from the Human Research Tissue Bank, supported by the NIHR Cambridge Biomedical Research Centre

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