

**CYC1 / Cytochrome C-1 Antibody**  
**Rabbit Polyclonal Antibody**  
**Catalog # ALS17168****Specification**

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**CYC1 / Cytochrome C-1 Antibody - Product Information**

Application	IHC-P, WB
Primary Accession	<a href="#">P08574</a>
Other Accession	<a href="#">1537</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	35422

**CYC1 / Cytochrome C-1 Antibody - Additional Information****Gene ID** 1537**Other Names**

CYC1, Complex III subunit 4, Cytochrome c-1, UQCR4, Complex III subunit IV

**Target/Specificity**

Human CYC1 / Cytochrome C-1

**Reconstitution & Storage**

PBS, pH 7.4, 0.03% Proclin 300, 50% glycerol. Aliquot and store at -20°C or -80°C. Avoid freeze-thaw cycles.

**Precautions**

CYC1 / Cytochrome C-1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**CYC1 / Cytochrome C-1 Antibody - Protein Information****Name** CYC1**Function**

Component of the ubiquinol-cytochrome c oxidoreductase, a multisubunit transmembrane complex that is part of the mitochondrial electron transport chain which drives oxidative phosphorylation. The respiratory chain contains 3 multisubunit complexes succinate dehydrogenase (complex II, CII), ubiquinol-cytochrome c oxidoreductase (cytochrome b-c1 complex, complex III, CIII) and cytochrome c oxidase (complex IV, CIV), that cooperate to transfer electrons derived from NADH and succinate to molecular oxygen, creating an electrochemical gradient over the inner membrane that drives transmembrane transport and the ATP synthase. The cytochrome b-c1 complex catalyzes electron transfer from ubiquinol to cytochrome c, linking this redox reaction to translocation of protons across the mitochondrial inner membrane, with protons being carried across the membrane as hydrogens on the quinol. In the process called Q

cycle, 2 protons are consumed from the matrix, 4 protons are released into the intermembrane space and 2 electrons are passed to cytochrome c. Cytochrome c1 is a catalytic core subunit containing a c-type heme. It transfers electrons from the [2Fe-2S] iron-sulfur cluster of the Rieske protein to cytochrome c.

#### Cellular Location

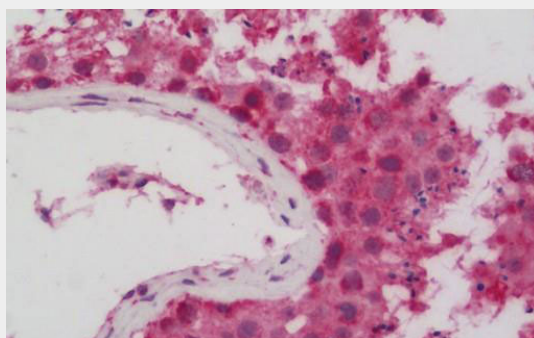
Mitochondrion inner membrane {ECO:0000250|UniProtKB:P07143}; Single-pass membrane protein {ECO:0000250|UniProtKB:P07143}

### CYC1 / Cytochrome C-1 Antibody - Protocols

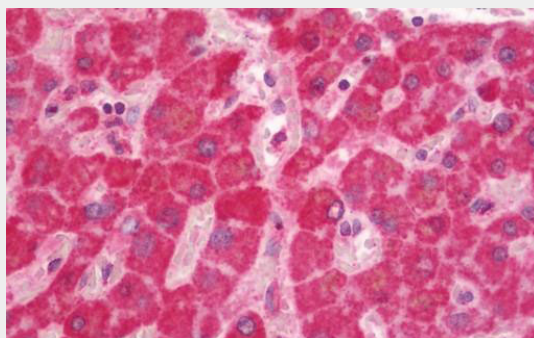
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

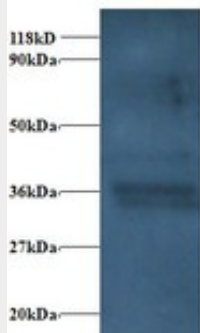
### CYC1 / Cytochrome C-1 Antibody - Images



Human Testis: Formalin-Fixed, Paraffin-Embedded (FFPE)



Human Liver: Formalin-Fixed, Paraffin-Embedded (FFPE)



Western blot of Cytochrome c1, heme protein, mitochondrial Antibody at 2 ug/ml + EC109 whole...

#### **CYC1 / Cytochrome C-1 Antibody - Background**

This is the heme-containing component of the cytochrome b-c1 complex, which accepts electrons from Rieske protein and transfers electrons to cytochrome c in the mitochondrial respiratory chain.

#### **CYC1 / Cytochrome C-1 Antibody - References**

Nishikimi M.,et al.Nucleic Acids Res. 16:3577-3577(1988).  
Suzuki H.,et al.J. Biol. Chem. 264:1368-1374(1989).  
Halleck A.,et al.Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.  
Kalnine N.,et al.Submitted (OCT-2004) to the EMBL/GenBank/DDBJ databases.  
Nusbaum C.,et al.Nature 439:331-335(2006).