

## DCI Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP9230b

### Product Information

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Application	WB, E
Primary Accession	<a href="#">P42126</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB23475
Calculated MW	32816

### Additional Information

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Gene ID	1632
Other Names	Enoyl-CoA delta isomerase 1, mitochondrial, 2-trans-enoyl-CoA isomerase, Delta(3), Delta(2)-enoyl-CoA isomerase, D3, D2-enoyl-CoA isomerase, Dodecenoyl-CoA isomerase, ECI1, DCI
Target/Specificity	This DCI antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide selected from the C-terminal region of human DCI.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	DCI Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

### Protein Information

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Name	ECI1
Synonyms	DCI
Function	Key enzyme of fatty acid beta-oxidation (Probable). Able to isomerize both 3-cis (3Z) and 3-trans (3E) double bonds into the 2- trans (2E) form in a range

of enoyl-CoA species, with a preference for (3Z)-enoyl-CoAs over (3E)-enoyl-CoAs (By similarity) (PubMed:[7818490](#)). The catalytic efficiency of this enzyme is not affected by the fatty acyl chain length (By similarity).

**Cellular Location** Mitochondrion matrix {ECO:0000250 | UniProtKB:P23965}

**Tissue Location** Expressed in liver (at protein level).

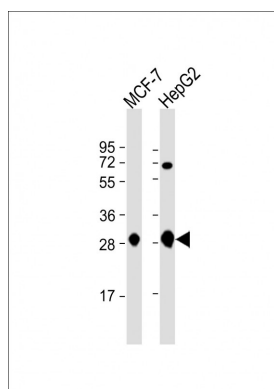
## Background

DCI encodes a member of the hydratase/isomerase superfamily. The protein encoded is a key mitochondrial enzyme involved in beta-oxidation of unsaturated fatty acids. It catalyzes the transformation of 3-cis and 3-trans-enoyl-CoA esters arising during the stepwise degradation of cis-, mono-, and polyunsaturated fatty acids to the 2-trans-enoyl-CoA intermediates.

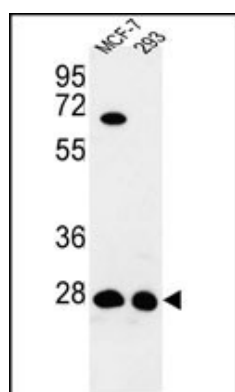
## References

Partanen,S.T., et.al., J. Mol. Biol. 342 (4), 1197-1208 (2004)  
Wistow,G., et.al, Mol. Vis. 8, 171-184 (2002)

## Images



All lanes : Anti-DCI Antibody (C-term) at 1:1000 dilution  
Lane 1: MCF-7 whole cell lysate Lane 2: HepG2 whole cell lysate  
Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 33 kDa  
Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot analysis of DCI Antibody (C-term) (Cat. #AP9230b) in MCF-7, 293 cell line lysates (35ug/lane). DCI (arrow) was detected using the purified Pab.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.