

**DCI Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP8770b****Specification**

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**DCI Antibody (C-term) Blocking Peptide - Product Information**Primary Accession [P42126](#)**DCI Antibody (C-term) Blocking Peptide - Additional Information****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**

The synthetic peptide sequence used to generate the antibody [AP8770b](/products/AP8770b) was selected from the C-term region of human DCI. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**DCI Antibody (C-term) Blocking Peptide - Protein Information****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](http://www.uniprot.org/citations/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).

**DCI Antibody (C-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**DCI Antibody (C-term) Blocking Peptide - Images****DCI Antibody (C-term) Blocking Peptide - Background**

DCI is 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.

**DCI Antibody (C-term) Blocking Peptide - References**

Takahashi,Y., et.al., Biochem. J. 304 (PT 3), 849-852 (1994)