

Datasheet for ABIN3044153  
**anti-DCI antibody (C-Term)**



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4 Images

## Overview

Quantity:	100 µg
Target:	DCI (EC11)
Binding Specificity:	AA 272-290, C-Term
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This DCI antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC)

## Product Details

Purpose:	Rabbit IgG polyclonal antibody for Enoyl-CoA delta isomerase 1, mitochondrial(EC11) detection. Tested with WB, IHC-P, ICC in Human,Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human DCI(272-290aa ADVQNFVSFISKDSIQKSL), different from the related mouse sequence by two amino acids and from the related rat sequence by three amino acids.
Sequence:	ADVQNFVSFI SKDSIQKSL
Isotype:	IgG
Cross-Reactivity (Details):	Predicted Cross Reactivity: mouse No cross reactivity with other proteins. Predicted Cross Reactivity: Species predicted to be fit for the product based on sequence

## Product Details

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similarities.

Characteristics: Rabbit IgG polyclonal antibody for Enoyl-CoA delta isomerase 1, mitochondrial(ECI1) detection.  
Tested with WB, IHC-P, ICC in Human,Mouse,Rat.  
Gene Name: enoyl-CoA delta isomerase 1  
Protein Name: Enoyl-CoA delta isomerase 1, mitochondrial

Purification: Immunogen affinity purified.

## Target Details

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Target: DCI (ECI1)

Alternative Name: ECI1 ([ECI1 Products](#))

Background: ECI1/DCI(Dodecenoyl-CoA Delta Isomerase), also known as 3,2-trans-enoyl-CoA isomerase, is an enzyme that catalyzes the conversion of cis-or trans-double bonds of fatty acids at gamma-carbon(position 3) to trans double bonds at beta-carbon(position 2). It plays a particularly important role in the metabolism of unsaturated fatty acids. All classes of enoyl-CoA isomerases belong to a family of enzymes, the hydratase/isomerase or crotonase superfamily, and when examined with x-ray crystallography, exhibit a common structural feature of the family, the N-terminal core with a spiral fold composed of four turns, each turn consisting of two beta-sheets and one alpha-helix. Dodecenoyl-CoA Delta Isomerase is involved in the beta-oxidation, one of the most frequently used pathways in fatty acid degradation, of unsaturated fatty acids with double bonds at odd-numbered carbon positions. It does so by shifting the position of the double bonds in the acyl-CoA intermediates and converting 3-cis or trans-enoyl-CoA to 2-trans-enoyl-CoA.

Synonyms: 3,2 trans enoyl Coenzyme A isomerase antibody|Acetylene allene isomerase antibody|D3,D2 enoyl CoA isomerase antibody|DCI antibody|DCI protein antibody|Delta(3),Delta(2) enoyl CoA isomerase antibody|Delta3, delta2 enoyl CoA isomerase antibody|Dodecenoyl CoA delta Isomerase antibody|Dodecenoyl CoA isomerase antibody|Dodecenoyl Coenzyme A delta isomerase antibody|Dodecenoyl Coenzyme A delta isomerase(3,2 trans enoyl Coenzyme A isomerase) antibody|Dodecenoyl Coenzyme A delta isomerase 3,2 trans enoyl Coenzyme A isomerase, isoform CRA a antibody

UniProt: [P42126](#)

## Application Details

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Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Rat, Predicted Species: Mouse  
IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.  
ICC: Concentration: 0.5-1 µg/mL, Tested Species: Human  
Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. Other applications have not been tested.  
Optimal dilutions should be determined by end users.

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Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P) and ICC.

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Restrictions: For Research Use only

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## Handling

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Format: Lyophilized

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Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

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Concentration: 500 µg/mL

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Buffer: Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05 mg Thimerosal, 0.05 mg Sodium azide.

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Preservative: Thimerosal (Merthiolate), Sodium azide

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Precaution of Use: This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.

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Handling Advice: Avoid repeated freezing and thawing.

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Storage: 4 °C/-20 °C

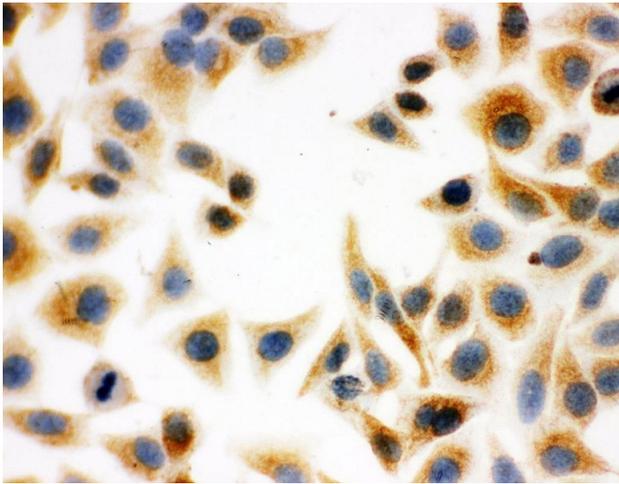
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Storage Comment: At -20°C for one year. After reconstitution, at 4°C for one month.  
It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

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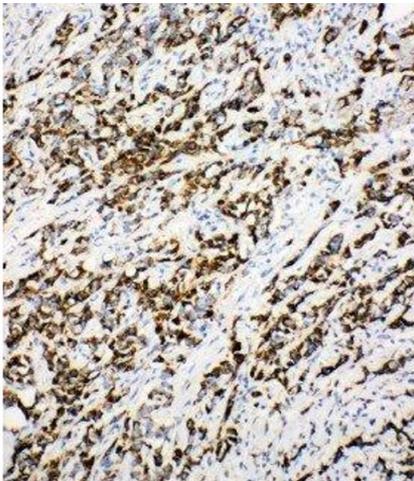
Expiry Date: 12 months

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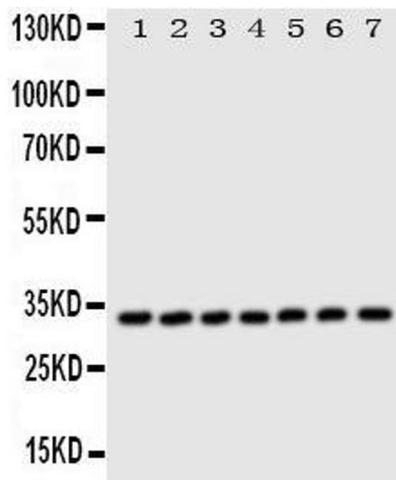
#### Immunohistochemistry

**Image 1.** Anti-DCI antibody, ICC ICC: HELA Cell



#### Immunohistochemistry

**Image 2.** Anti-DCI antibody, IHC(P) IHC(P): Human Mammary Cancer Tissue



#### Western Blotting

**Image 3.**

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN3044153.