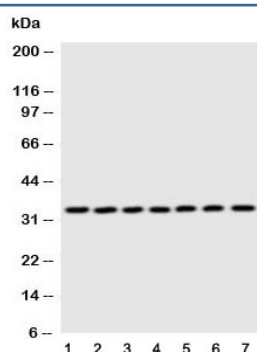


DCI Antibody (R30856)

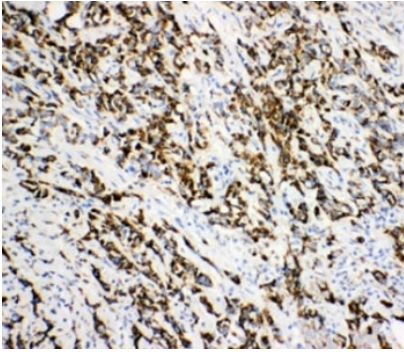
Catalog No.	Formulation	Size
R30856	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

[Bulk quote request](#)

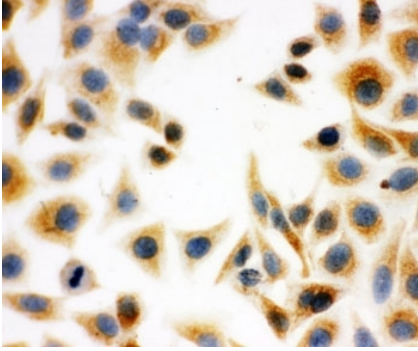
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
UniProt	P42126
Applications	Western blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 0.5-1ug/ml Immunocytochemistry (FFPE) : 0.5-1ug/ml Immunofluorescence (FFPE) : 2-4ug/ml
Limitations	This DCI antibody is available for research use only.



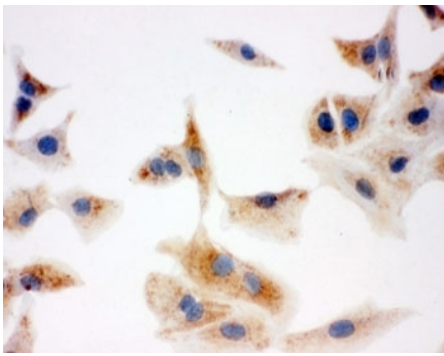
Western blot testing of DCI antibody and Lane 1: rat liver; 2: human placenta; 3: A549; 4: SMMC-7721; 5: COLO320; 6: HeLa; 7: HT1080 cell lysate. Predicted molecular weight ~33 kDa.



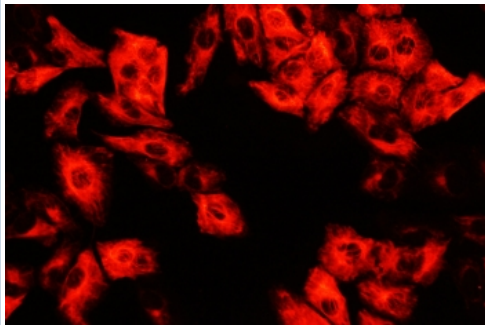
IHC-P: DCI antibody testing of human breast cancer tissue. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min and allow to cool before testing.



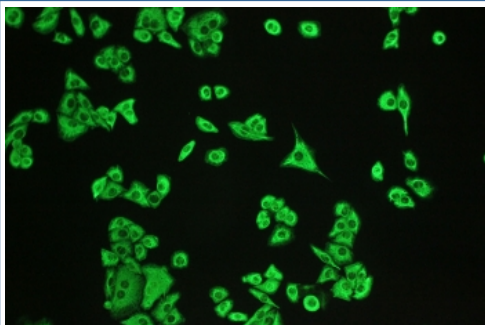
ICC testing of HeLa cells. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min and allow to cool before testing.



ICC testing of A549 cells. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min and allow to cool before testing.



IF/ICC staining of FFPE human A549 cells with DCI antibody (red) at 2ug/ml. HIER: steam section in pH6 citrate buffer for 20 min.



IF/ICC staining of FFPE human A549 cells with DCI antibody (green) at 2ug/ml. HIER: steam section in pH6 citrate buffer for 20 min.

Description

Dodecenoyl-CoA Delta Isomerase, also known as 3,2-trans-enoyl-CoA isomerase (EC11), 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/DCI 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.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the DCI antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the C-terminus of human DCI (ADVQNFVSFISKDSIQKSL) was used as the immunogen for this DCI antibody.

Storage

After reconstitution, the DCI antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.