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Anti-ECI1 Antibody

Catalog # AP53297

Product Information

Application	WB, IHC
Primary Accession	P42126
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	32816

Additional Information

Gene ID	1632
Other Names	DCI; Enoyl-CoA delta isomerase 1 mitochondrial; 3, 2-trans-enoyl-CoA isomerase; Delta(3), Delta(2)-enoyl-CoA isomerase; D3, D2-enoyl-CoA isomerase; Dodecenoyl-CoA isomerase
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human ECI1. The exact sequence is proprietary.
Dilution	WB~~ 1:1000 IHC~~1:100~500
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

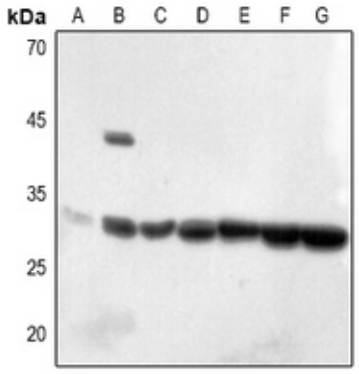
Name	ECI1
Synonyms	DCI
Function	Auxiliary enzyme in the beta-oxidation of mono- and polyunsaturated fatty acids (PubMed:26474213, PubMed:7818490). Together with the 2,4-dienoyl-CoA reductase (DECR) and the Delta(3,5)- Delta(2,4)-dienoyl-CoA isomerase (ECH1), they allow the reentrance of the enoyl-CoA into the beta-oxidation cycle (PubMed:26474213). Able to isomerize both 3-cis (3Z) and 3-trans (3E) double bonds into the 2- trans (2E) form in a range of fatty enoyl-CoA species, with a preference for (3Z)-enoyl-CoAs over (3E)-enoyl-CoAs (PubMed:26474213, PubMed:7818490). The catalytic efficiency of this enzyme is not affected by the fatty acyl chain length, and based on its established catalytic mechanism, it is predicted to act also on other fatty acids besides those tested experimentally (By similarity).

Cellular Location	Mitochondrion matrix {ECO:0000250|UniProtKB:P23965}
Tissue Location	Expressed in liver (at protein level).

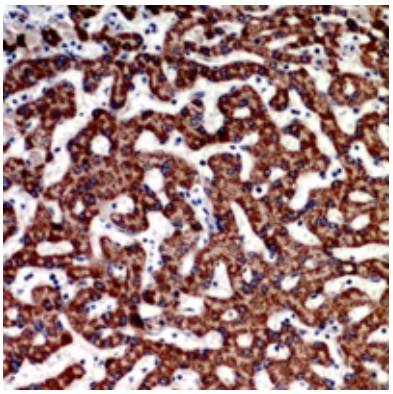
References

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Ota T.,et al.Nat. Genet. 36:40-45(2004).
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.
Kilponen J.M.,et al.Biochem. J. 300:1-5(1994).
Takahashi Y.,et al.Biochem. J. 304:849-852(1994).

Images



Western blot analysis of ECI1 expression in HEK293T (A), Hela (B), A2780 (C), mouse liver (D), mouse kidney (E), rat liver (F), rat kidney (G) whole cell lysates. (Predicted band size: 32 kD; Observed band size: 32 kD)



Immunohistochemical analysis of ECI1 staining in human liver formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

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