

KD-Validated Anti-ECI1 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody

Catalog # AGI2250

Product Information

Application	WB
Primary Accession	P42126
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	25GB4285
Calculated MW	32816
Gene Name	ECI1
Aliases	ECI1; Enoyl-CoA Delta Isomerase 1; DCI; Dodecenoyl-Coenzyme A Delta Isomerase (3,2 Trans-Enoyl-Coenzyme A Isomerase); Enoyl-CoA Delta Isomerase 1, Mitochondrial; Delta(3),Delta(2)-Enoyl-CoA Isomerase; D3,D2-Enoyl-CoA Isomerase; Dodecenoyl-CoA Isomerase; Dodecenoyl-CoA Delta Isomerase (3,2 Trans-Enoyl-CoA Isomerase); 3,2-Trans-Enoyl-CoA Isomerase, Mitochondrial; Epididymis Secretory Sperm Binding Protein; 3,2 Trans-Enoyl-Coenzyme A Isomerase; 3,2 Trans-Enoyl-CoA Isomerase; 3,2-Trans-Enoyl-CoA Isomerase; Acetylene-Allene Isomerase; EC 5.3.3.8
Immunogen	A synthesized peptide derived from human ECI1

Additional Information

Gene ID	1632
Other Names	Enoyl-CoA delta isomerase 1, mitochondrial, 5.3.3.8, 3, 2-trans-enoyl-CoA isomerase, Delta(3), Delta(2)-enoyl-CoA isomerase, D3, D2-enoyl-CoA isomerase, Dodecenoyl-CoA isomerase, ECI1, DCI

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).

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