10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

DRS-1 Polyclonal Antibody

Catalog # AP69598

Product Information

Application	WB, IHC-P, IF, ICC, E
Primary Accession	O75521
Reactivity	Human, Rat, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	43585

Additional Information

Gene ID	10455
Other Names	ECI2; DRS1; HCA88; PECI; Enoyl-CoA delta isomerase 2; mitochondrial; DRS-1; Delta(3), delta(2)-enoyl-CoA isomerase; D3, D2-enoyl-CoA isomerase; Diazepam-binding inhibitor-related protein 1; DBI-related protein 1; Dodecenoyl-CoA isomerase; Hep
Dilution	WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/20000. Not yet tested in other applications. IHC-P~~N/A IF~~1:50~200 ICC~~N/A E~~N/A
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20℃

Protein Information

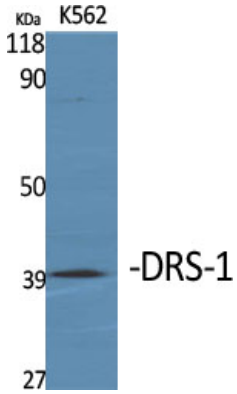
Name	ECI2
Synonyms	DRS1, HCA88, PECI {ECO:0000303|PubMed:10
Function	Auxiliary enzyme in the beta-oxidation of mono- and polyunsaturated fatty acids (PubMed:10419495). Together with the 2,4- dienoyl-CoA reductase (DECR) and the Delta(3,5)-Delta(2,4)-dienoyl-CoA isomerase (ECH), they allow the reentrance of the enoyl-CoA into the beta-oxidation cycle (PubMed:10419495). 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 (3E)-enoyl-CoAs over (3Z)-enoyl-CoAs (PubMed:10419495, PubMed:25515061). Based on its established catalytic mechanism, it is predicted to act also on other fatty acids besides those tested experimentally (Probable).
Cellular Location	[Isoform 1]: Mitochondrion {ECO:0000250|UniProtKB:Q5XIC0}

Tissue Location	Abundant in heart, skeletal muscle and liver. Expressed in CD34(+) T-cells and CD34(+) bone marrow cells

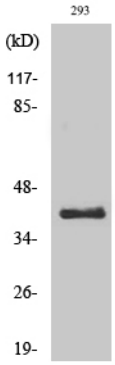
Background

Able to isomerize both 3-cis and 3-trans double bonds into the 2-trans form in a range of enoyl-CoA species. Has a preference for 3-trans substrates (By similarity).

Images



Western Blot analysis of various cells using DRS-1 Polyclonal Antibody



Western Blot analysis of 293 cells using DRS-1 Polyclonal Antibody

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