

Product Name: KD-Validated ECI1 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA00341**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 32.8kDa

Antigen Information

Gene Name	ECI1 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
Alternative Names	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
Gene ID	1632.0
SwissProt ID	P42126
Immunogen	A synthesized peptide derived from human ECI1

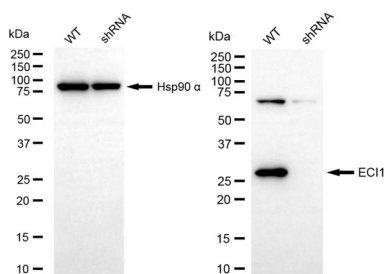
Background

This gene encodes a member of the hydratase/isomerase superfamily. The protein encoded is a key mitochondrial enzyme involved in beta-oxidation of unsaturated fatty acids. It catalyzes the transformation of 3-cis and 3-trans-enoyl-CoA esters arising during the stepwise degradation of cis-, mono-, and polyunsaturated fatty acids to the 2-trans-enoyl-CoA intermediates. Alternatively spliced transcript variants have been described. [provided by RefSeq, May 2010]

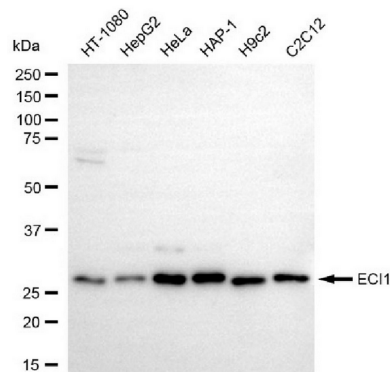
Research Area

Tags & Cell Markers, Signal Transduction, Cardiovascular, Cancer, Metabolism

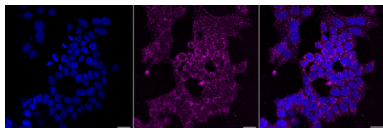
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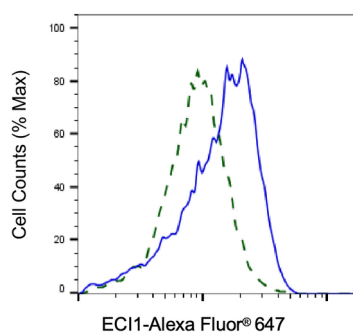
Western blotting analysis using ECI1 antibody (KVA00341). ECI1 expression in wild-type (WT) and ECI1 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with ECI1 antibody (KVA00341, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using ECI1 antibody (KVA00341). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with ECI1 antibody (KVA00341, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HAP-1 cells with ECI1 antibody (KVA00341, 1:1,000). Nuclei were stained blue with DAPI; ECI1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser intensity and smart gain: Medium. Scale bar, 20 µm.



Validation of ECI1 knockdown using flow cytometry. Wild-type (WT, Blue) and knockdown (KD, Green) HeLa cells were stained with ECI1 antibody (KVA00341, 1:2,000) and analyzed using BD flow cytometer.

