Human ECI1 Knockdown Cell Line (WB-Validated)

Catalog #: C65565

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

Background

Gene Name: ECI1
NCBI Gene Entry: 1632

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human ECI1 Knockdown Cell Line (Wb-Validated)
2. Wild-type cell line

Parental Cell Line

Human cell line supplied by the client

Validation Methods

RT-qPCR, Western blotting (WB)

Shipping

Shipped on Dry Ice.

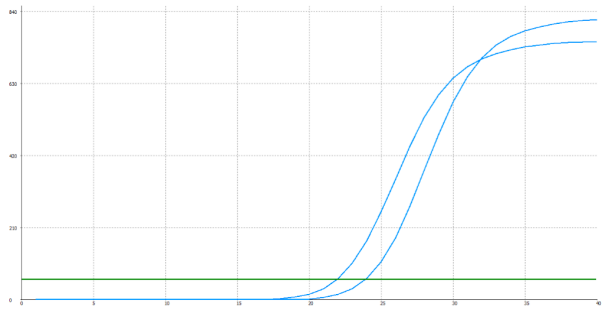
Instructions For Use

This knockdown cell line should be paired with wild-type cell line for use.

Note: This product is for research use only.

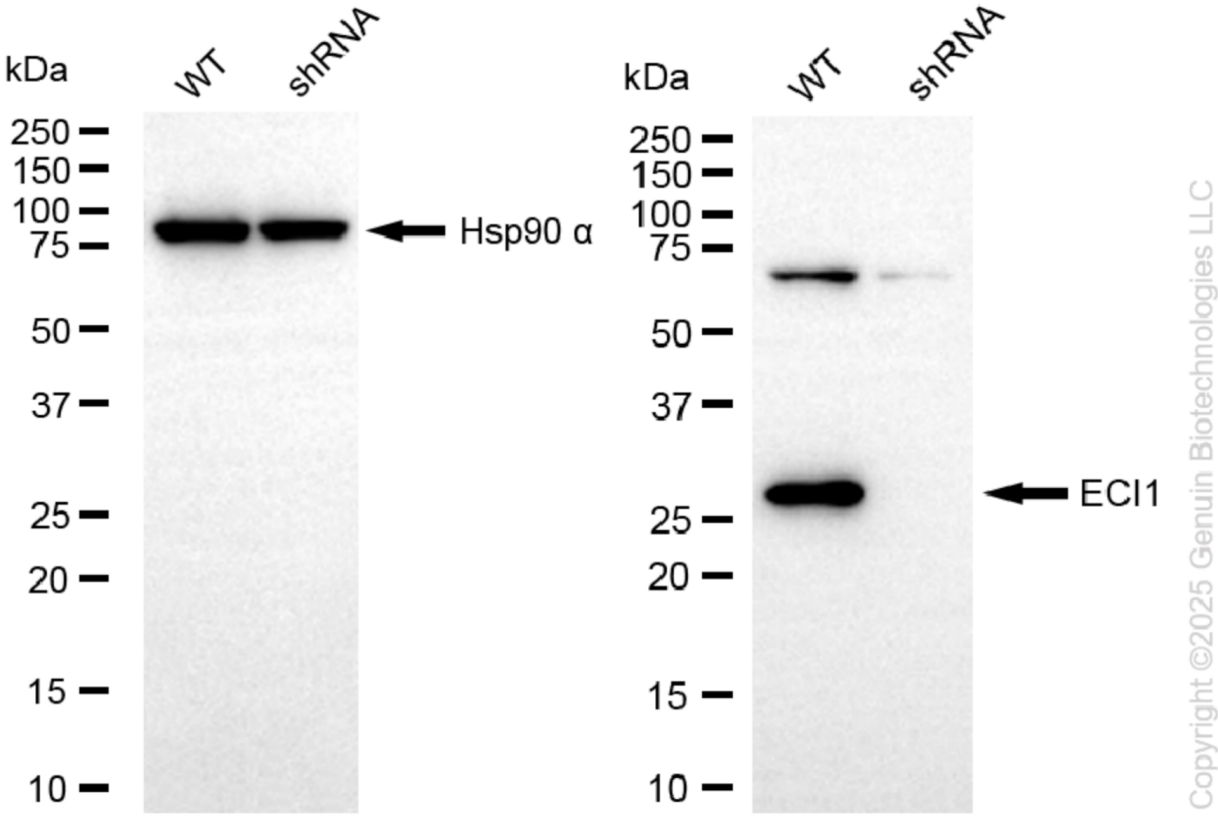
Validation Data

Human ECI1 Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	21.76
Knock-Down	23.87
ΔCt (Ct_{KD}-Ct_{WT})	2.11
% mRNA Reduction	⬇ 77%

RT-qPCR analysis. HeLa cells were infected with ECI1-specific shRNA lentiviral particles, total RNA was extracted from wild-type and knockdown cells, RT-qPCR was performed using gene-specific primers. ΔCt (CtKD-CtWT) was used to calculate mRNA reduction (%) between wild-type and knockdown cells using the following formula: (1-1/2ΔCt) x 100%.



Western blotting analysis.ECI1 protein expression in wild-type (WT) and shRNA knockdown (KD) HeLa cells was detected using Western blotting. Hsp90 α served as a loading control. The blots were incubated with primary antibodies against ECI1 and Hsp90 α, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed using NaQ™ ECL Substrate Kit.