Human HADHA Knockdown Cell Line (WB-Validated)

Catalog #: C63587

Aliases

HADHA; Hydroxyacyl-CoA Dehydrogenase Trifunctional Multienzyme Complex Subunit Alpha; LCHAD; LCEH; MTPA; GBP; Hydroxyacyl-Coenzyme A Dehydrogenase/3-Ketoacyl-Coenzyme A Thiolase/Enoyl-Coenzyme A HydRatase (Trifunctional Protein), Alpha Subunit; Hydroxyacyl-CoA Dehydrogenase/3-Ketoacyl-CoA Thiolase/Enoyl-CoA HydRatase (Trifunctional Protein), Alpha Subunit; Mitochondrial Trifunctional Protein, Alpha Subunit; Trifunctional Enzyme Subunit Alpha, Mitochondrial; Long-Chain-3-Hydroxyacyl-CoA Dehydrogenase; Monolysocardiolipin Acyltransferase; Long-Chain 2-Enoyl-CoA HydRatase; 78 KDa Gastrin-Binding Protein; Gastrin-Binding Protein; HADH; Mitochondrial Long-Chain L-3-Hydroxyacyl-Coenzyme A (CoA) Dehydrogenase, Alpha Subunit; Mitochondrial Long-Chain 2-Enoyl-Coenzyme A (CoA) HydRatase, Alpha Subunit; 3-Ketoacyl-Coenzyme A (CoA) Thiolase, Alpha Subunit; Mitochondrial Trifunctional Enzyme, Alpha Subunit; 3-Oxoacyl-CoA Thiolase; EC 2.3.1.- ; TP-ALPHA; TP-Alpha; ECHA

Background

Gene Name: HADHA
NCBI Gene Entry: 3030

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human HADHA 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.

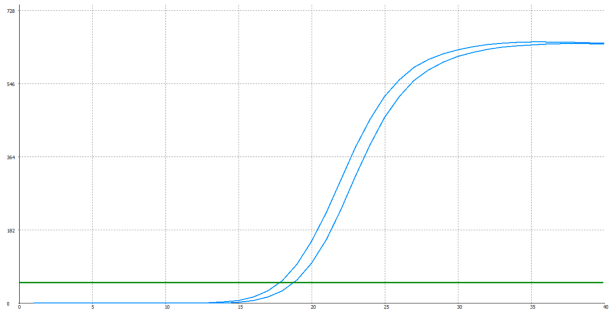
Instructions For Use

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

Human HADHA Knockdown Cell Line (WB-Validated)

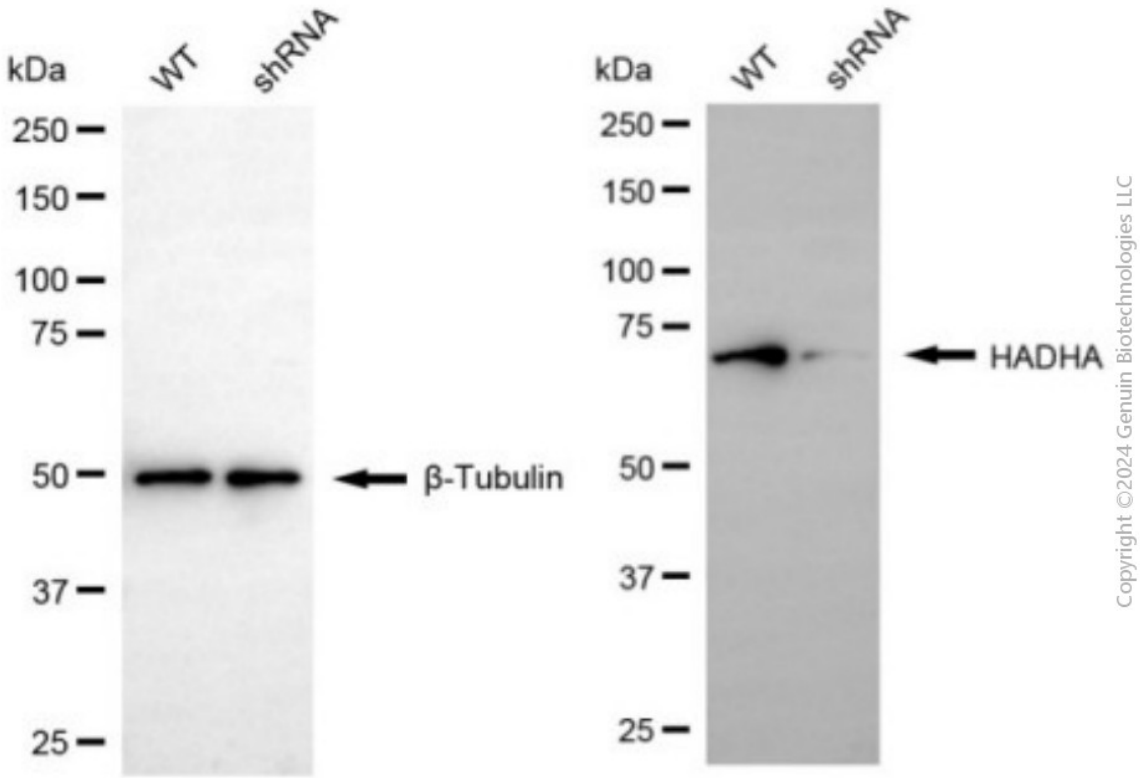
Note: This product is for research use only.

Validation Data



Genotype	Ct Value
Wild-Type	18.56
Knock-Down	20.23
ΔCt (Ct_{KD}-Ct_{WT})	1.67
% mRNA Reduction	⬇ 69%

RT-qPCR analysis. HeLa cells were infected with HADHA-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. HADHA protein expression in wild-type (WT) and shRNA knockdown (KD) HeLa cells was detected using Western blotting. β-Tubulin served as a loading control. The blots were incubated with primary antibodies against HADHA and β-Tubulin, respectively, followed by incubating with HRP-conjugated goat anti-mouse secondary antibody. Images were

developed using FeQ™ ECL Substrate Kit.