Human DLD Knockdown Cell Line (WB-Validated)

Catalog #: C61456

Aliases

DLD; Dihydrolipoamide Dehydrogenase; OGDC-E3; DLDH; GCSL; LAD; E3; E3 Component Of Pyruvate Dehydrogenase Complex, 2-Oxo-GlutaRate Complex, Branched Chain Keto Acid Dehydrogenase Complex; Dihydrolipoyl Dehydrogenase, Mitochondrial; Glycine Cleavage System L Protein; EC 1.8.1.4; PHE3; Dihydrolipoamide Dehydrogenase (E3 Component Of Pyruvate Dehydrogenase Complex, 2-Oxo-GlutaRate Complex, Branched Chain Keto Acid Dehydrogenase Complex); Epididymis Secretory Sperm Binding Protein; Glycine Cleavage System Protein L; Lipoamide Dehydrogenase; Lipoyl Dehydrogenase; Lipoamide Reductase; Diaphorase; EC 1.8.1 48; DLDD

Background

Gene Name: DLD
NCBI Gene Entry: 1738

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human DLD 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.

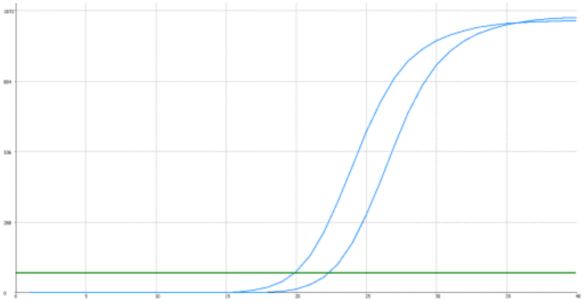
Instructions For Use

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

Note: This product is for research use only.

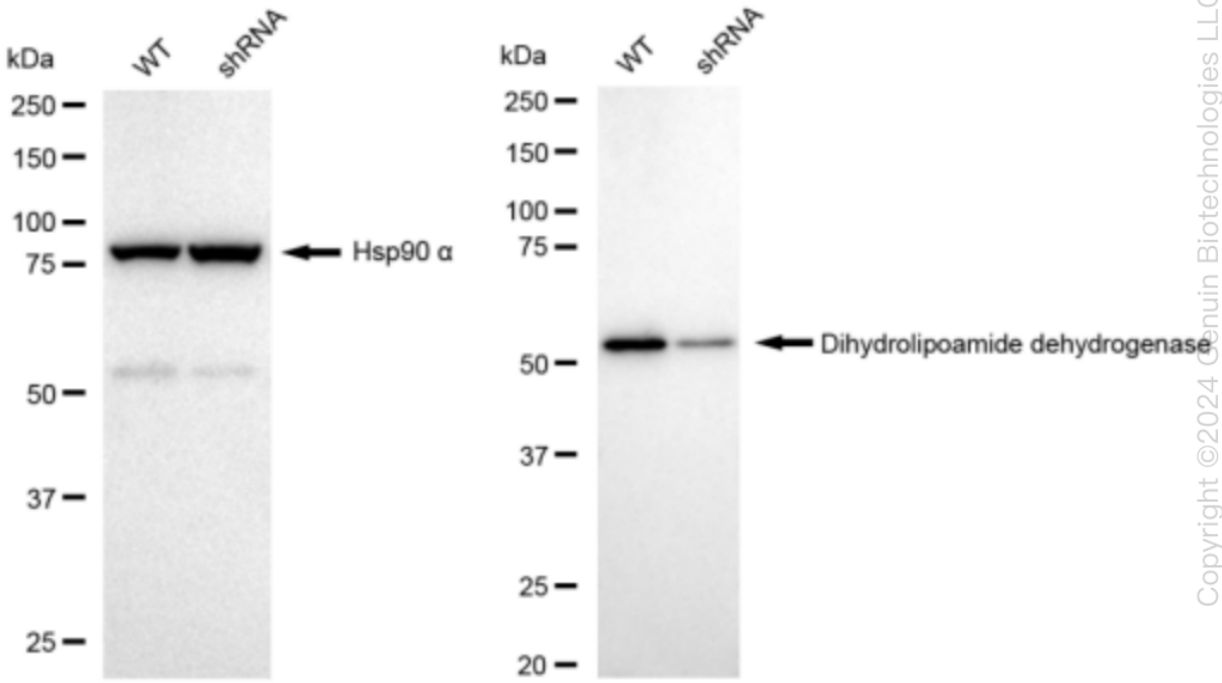
Validation Data

Human DLD Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	19.84
Knock-Down	22.29
ΔCt (Ct_{KD}-Ct_{WT})	2.45
% mRNA Reduction	⬇ 82%

RT-qPCR analysis. HeLa cells were infected with DLD-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. DLD 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 (Cat#61456, 1:5,000) against DLD and Hsp90 α, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody (Cat#201, 1:20,000). Images were developed using FeQ™ ECL Substrate Kit (Cat#226).