Human IDH1 Knockdown Cell Line (WB-Validated)

Catalog #: C61181

Aliases

IDH1; IsocitRate Dehydrogenase (NADP(+)) 1; IsocitRate Dehydrogenase (NADP(+)) 1, Cytosolic; IsocitRate Dehydrogenase 1 (NADP+), Soluble; IsocitRate Dehydrogenase [NADP] Cytoplasmic; Oxalosuccinate Decarboxylase; NADP(+)-Specific ICDH; EC 1.1.1.42; PICD; IDH; NADP-Dependent IsocitRate Dehydrogenase, Peroxisomal; NADP-Dependent IsocitRate Dehydrogenase, Cytosolic; Epididymis Secretory Sperm Binding Protein; Cytosolic NADP-IsocitRate Dehydrogenase; IsocitRate Dehydrogenase 1 (NADP+); Epididymis Secretory Protein Li 26; Epididymis Luminal Protein 216; HEL-S-26; HEL-216; IDCD; IDPC; IDPc; IDP

Background

Gene Name: IDH1
NCBI Gene Entry: 3417

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human IDH1 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.

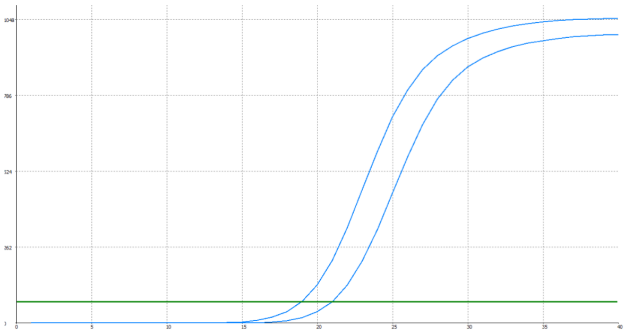
Instructions For Use

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

Note: This product is for research use only.

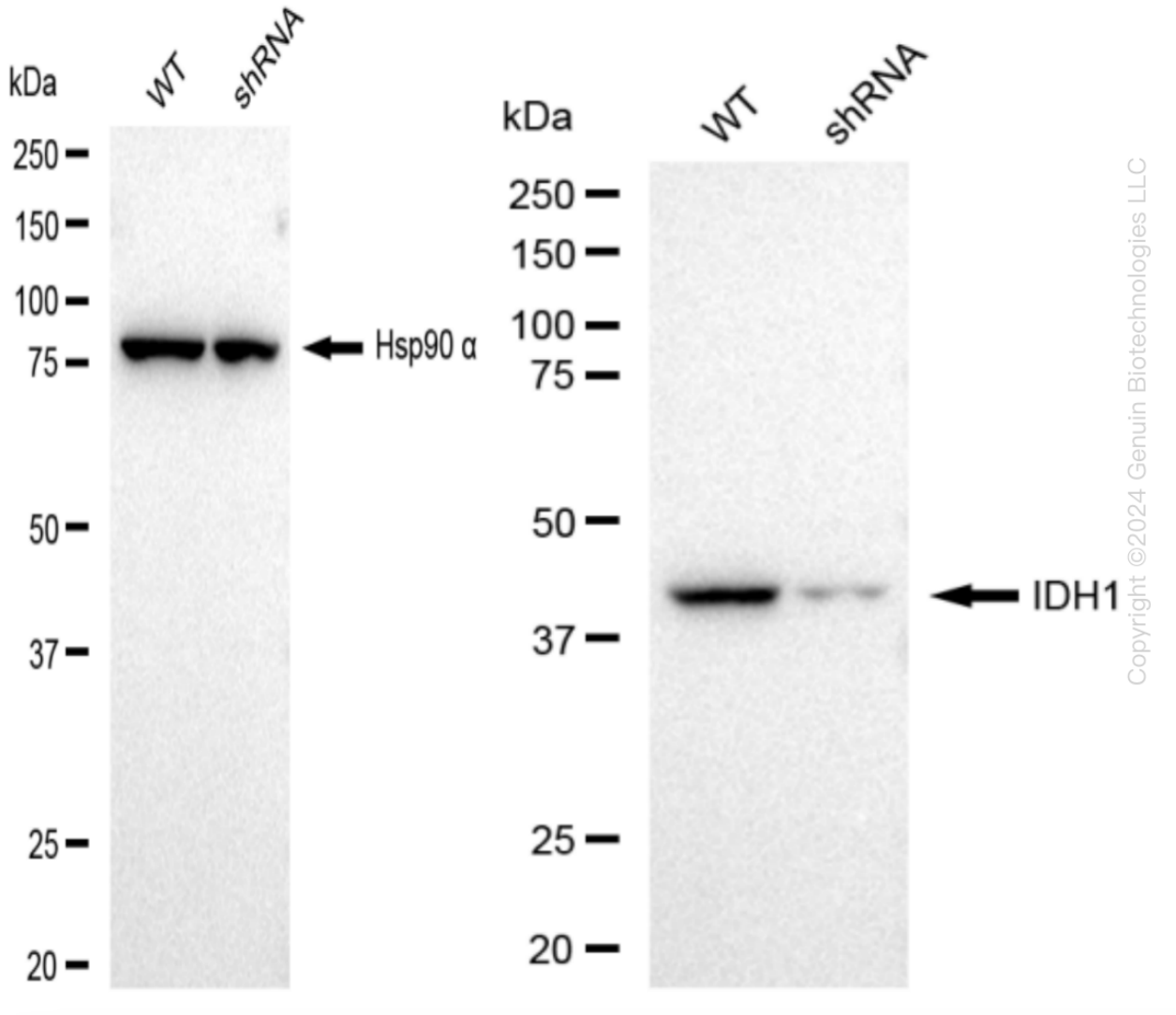
Validation Data

Human IDH1 Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	19.00
Knock-Down	20.91
ΔCt (Ct_{KD}-Ct_{WT})	1.91
% mRNA Reduction	⬇ 73%

RT-qPCR analysis. HeLa cells were infected with IDH1-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%.



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Western blotting analysis. IDH1 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#61181, 1:5,000) against IDH1 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).