

# Human MDH2 Knockdown Cell Line (WB-Validated)



**Catalog #: C61237**

## Aliases

MDH2; Malate Dehydrogenase 2; Malate Dehydrogenase 2, NAD (Mitochondrial); Malate Dehydrogenase, Mitochondrial; EC 1.1.1.37; Testicular Tissue Protein Li 120; MGC:3559; EC 1.1.1.1; EIEE51; DEE51; M-MDH; MOR1; MDH

## Background

Gene Name: MDH2

NCBI Gene Entry: [4191](#)

## Storage

Store at liquid nitrogen for 1 year.

## Kit Components

1. Human MDH2 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

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### SUPPORT

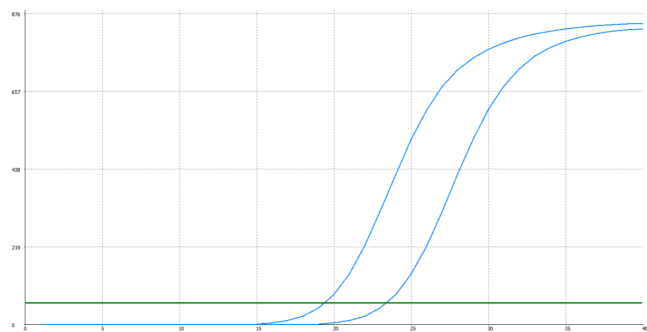
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### ORDERS

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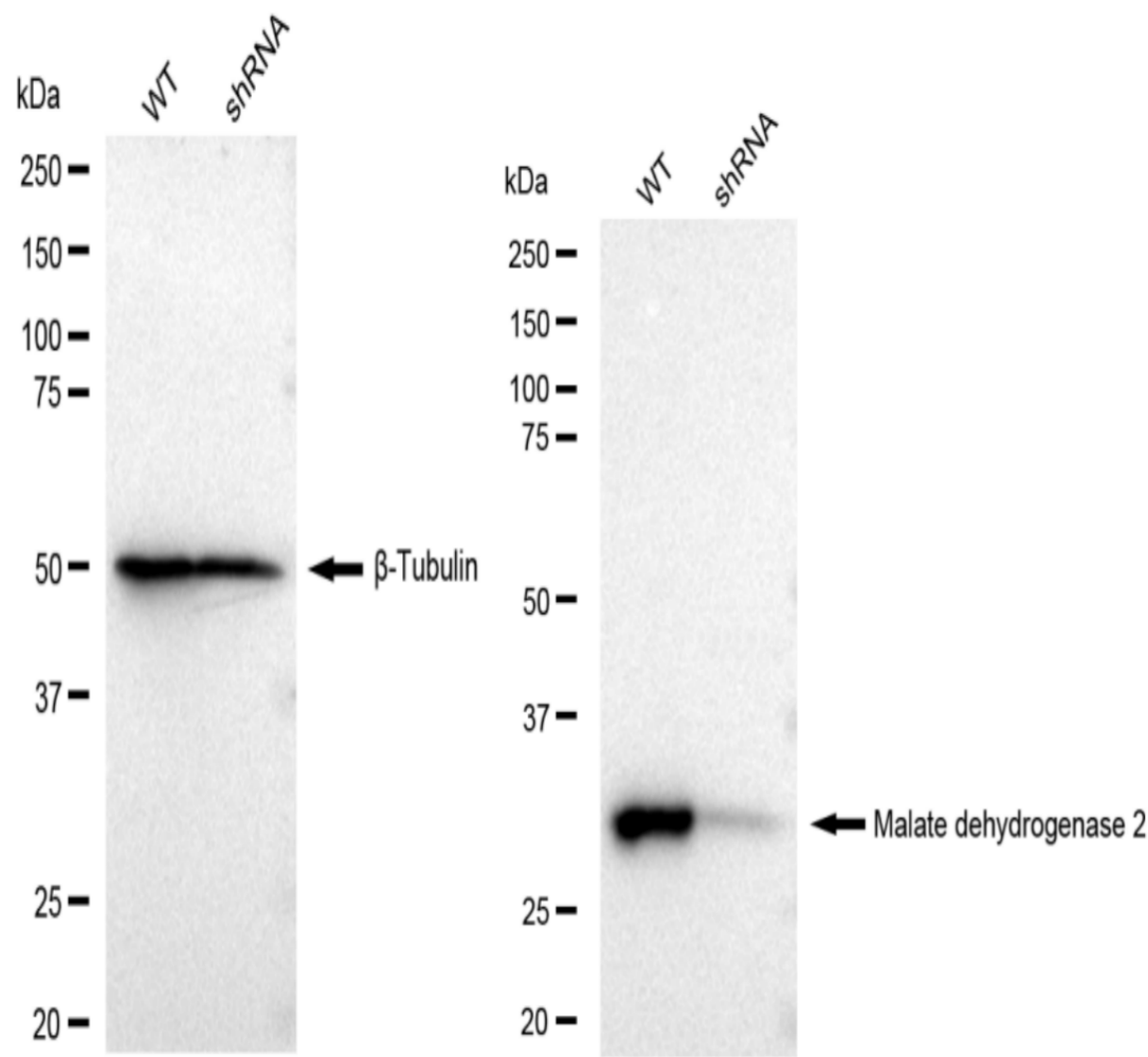
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Genotype	Ct Value
Wild-Type	19.34
Knock-Down	23.33
$\Delta Ct (Ct_{KD}-Ct_{WT})$	3.99
% mRNA Reduction	↓ 94%

RT-qPCR analysis. HeLa cells were infected with MDH2-specific shRNA lentiviral particles, total RNA was extracted from wild-type and knockdown cells, RT-qPCR was performed using gene-specific primers.  $\Delta Ct (Ct_{KD}-Ct_{WT})$  was used to calculate mRNA reduction (%) between wild-type and knockdown cells using the following formula:  $(1-1/2^{\Delta Ct}) \times 100\%$ .



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Western blotting analysis. MDH2 protein expression in wild-type (WT) and shRNA knockdown (KD) HeLa cells was detected using Western blotting.  $\beta$ -Tubulin served as a loading control. The blots were incubated with primary antibodies (Cat#61237, 1:5,000) against MDH2 and  $\beta$ -Tubulin, 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).