

# Human MBD2 Knockdown Cell Line (WB-Validated)



**Catalog #: C62358**

## Aliases

MBD2; Methyl-CpG Binding Domain Protein 2; Methyl-CpG-Binding Domain Protein 2; Demethylase; DMTase; Methyl-CpG-Binding Protein MBD2; NY-CO-41

## Background

Gene Name: MBD2

NCBI Gene Entry: [8932](#)

## Storage

Store at liquid nitrogen for 1 year.

## Kit Components

1. Human MBD2 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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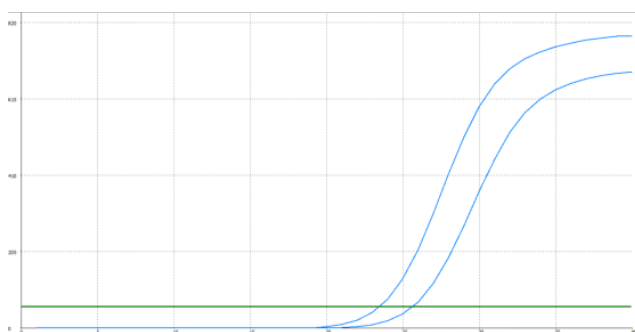
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## Human MBD2 Knockdown Cell Line (WB-Validated)

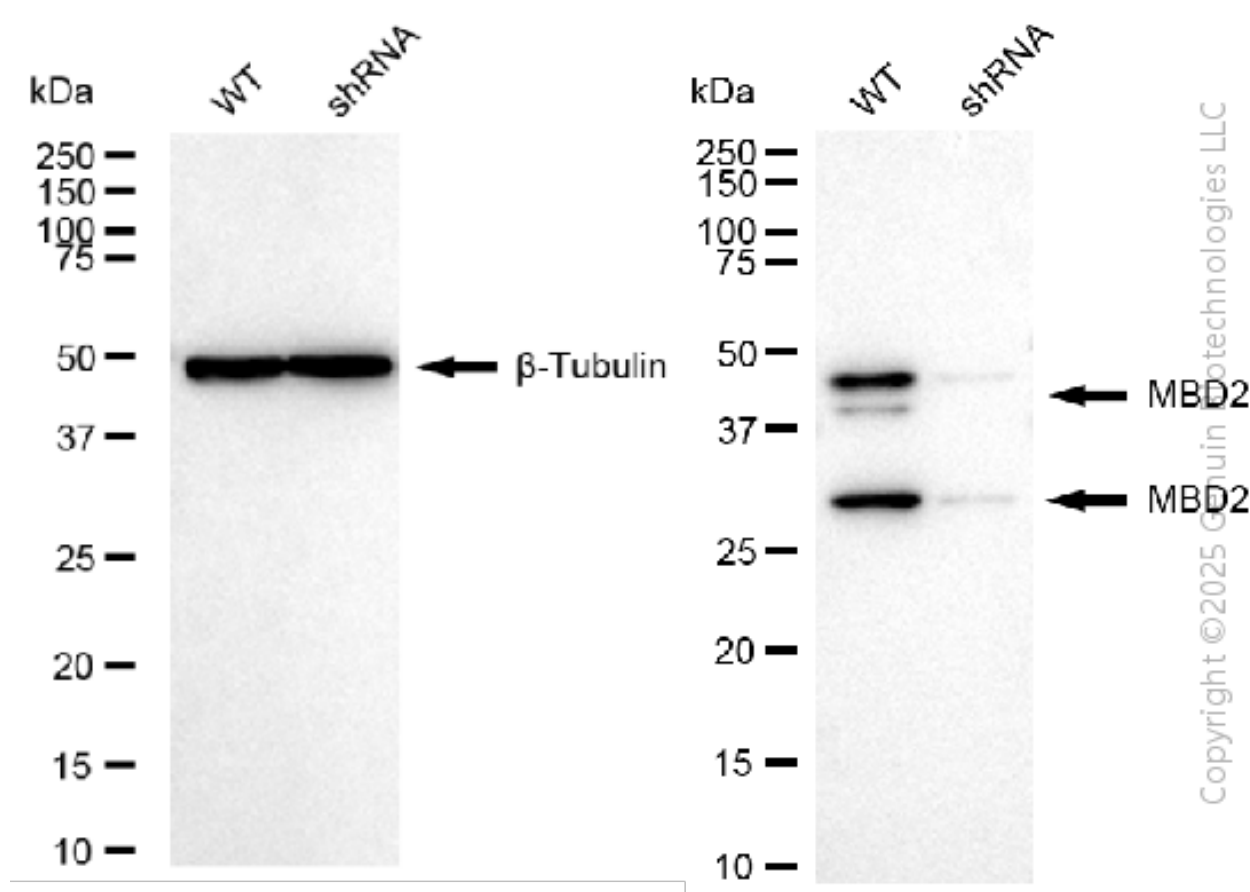
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Genotype	Ct Value
Wild-Type	23.40
Knock-Down	25.32
$\Delta Ct$ (CtKD-CtWT)	1.92
% mRNA Reduction	74%

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RT-qPCR analysis. HT-1080 cells were infected with MBD2-specific shRNA lentiviral particles, total RNA was extracted from wild-type and knockdown cells, RT-qPCR was performed using gene-specific primers.  $\Delta Ct$  (CtKD-CtWT) 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. MBD2 protein expression in wild-type (WT) and shRNA knockdown (KD) HT-1080 cells was detected using Western blotting.  $\beta$ -Tubulin served as a loading control. The blots were incubated with primary antibodies against MBD2 and  $\beta$ -Tubulin, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.

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