Human IFIH1 Knockdown Cell Line (WB-Validated)

Catalog #: C61179

Aliases

IFIH1; Interferon Induced With Helicase C Domain 1; MDA-5; MDA5; Helicard; IDDM19; Interferon-Induced Helicase C Domain-Containing Protein 1; Clinically Amyopathic Dermatomyositis Autoantigen 140 KDa; Melanoma Differentiation-Associated Protein 5; Melanoma Differentiation-Associated Gene 5; RNA Helicase-DEAD Box Protein 116; Murabutide Down-Regulated Protein; Helicase With 2 CARD Domains; RIG-I-Like Receptor; CADM-140 Autoantigen; RLR-2; Hlcd; Interferon-Induced With Helicase C Domain Protein 1; DEAD/H (Asp-Glu-Ala-Asp/His) Box Polypeptide; EC 3.6.4.13; SGMRT1; IMD95; RH116; AGS7; HLCD

Background

Gene Name: IFIH1
NCBI Gene Entry: 64135

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human IFIH1 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.

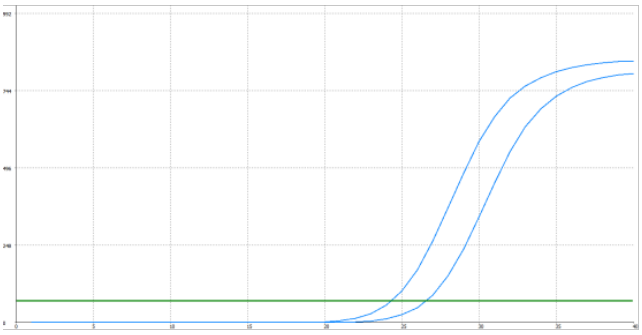
Instructions For Use

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

Note: This product is for research use only.

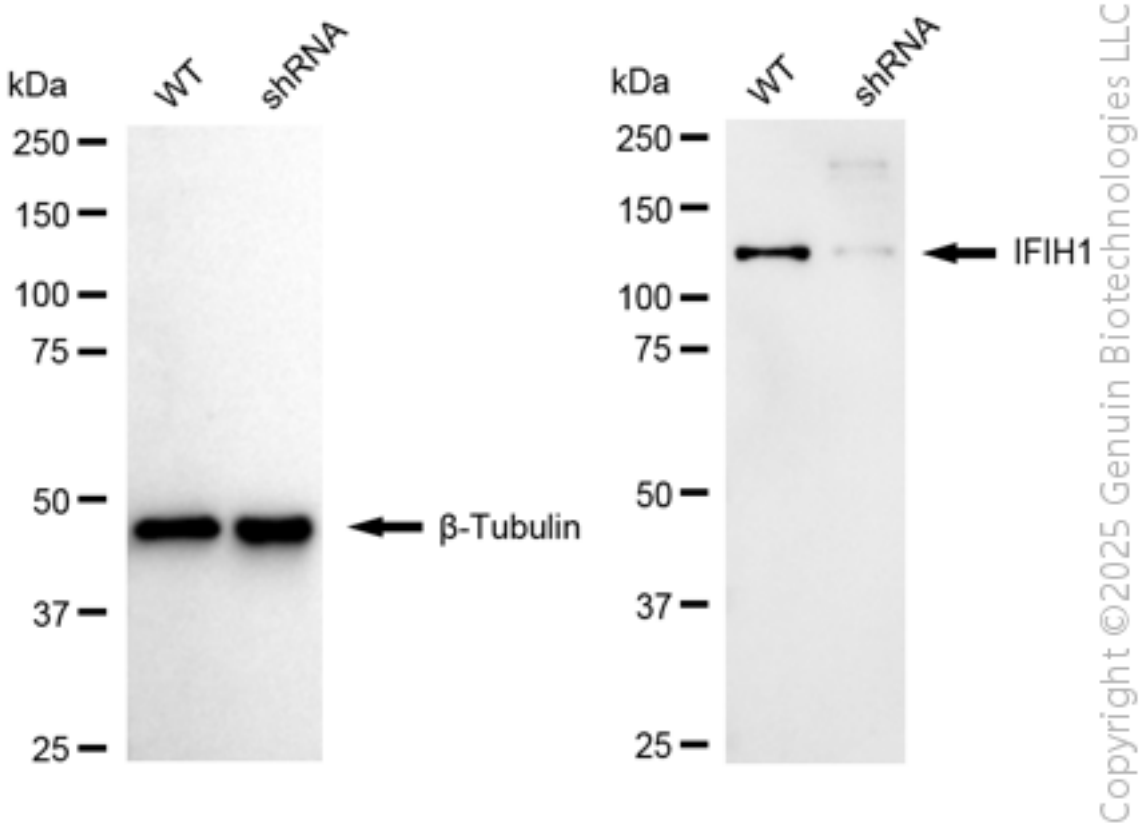
Validation Data

Human IFIH1 Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	24.08
Knock-Down	26.20
ΔCt (CtKD-CtWT)	2.12
% mRNA Reduction	77%

RT-qPCR analysis. HT-1080 cells were infected with IFIH1-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. IFIH1 protein expression in wild-type (WT) and shRNA knockdown (KD) HT-1080 cells was detected using Western blotting. β-Tubulin served as a loading control.

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The blots were incubated with primary antibodies against IFIH1 and β-Tubulin, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.