Human MYH9 Knockdown Cell Line (WB-Validated)

Catalog #: C65081

Aliases

MYH9; Myosin Heavy Chain 9; NMHC-II-A; NMMHCA; EPSTS; FTNS; MHA; Cellular Myosin Heavy Chain, Type A; Nonmuscle Myosin Heavy Chain II-A; Non-Muscle Myosin Heavy Chain IIa; Non-Muscle Myosin Heavy Chain A; MMHC-IIA; Myosin-9; DFNA17; Myosin, Heavy Polypeptide 9, Non-Muscle; Non-Muscle Myosin Heavy Polypeptide 9; Myosin Heavy Chain, Non-Muscle IIa; Myosin, Heavy Chain 9, Non-Muscle; Non-Muscle Myosin Heavy Chain 9; Nonmuscle Myosin IIA2; NMMHC II-A; NMMHC-A; BDPLT6; MATINS

Background

Gene Name: MYH9
NCBI Gene Entry: 4627

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human MYH9 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.

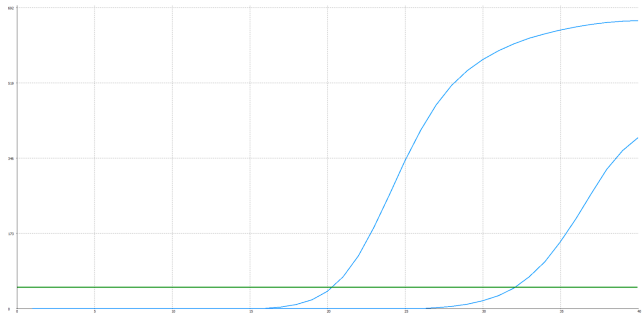
Instructions For Use

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

Note: This product is for research use only.

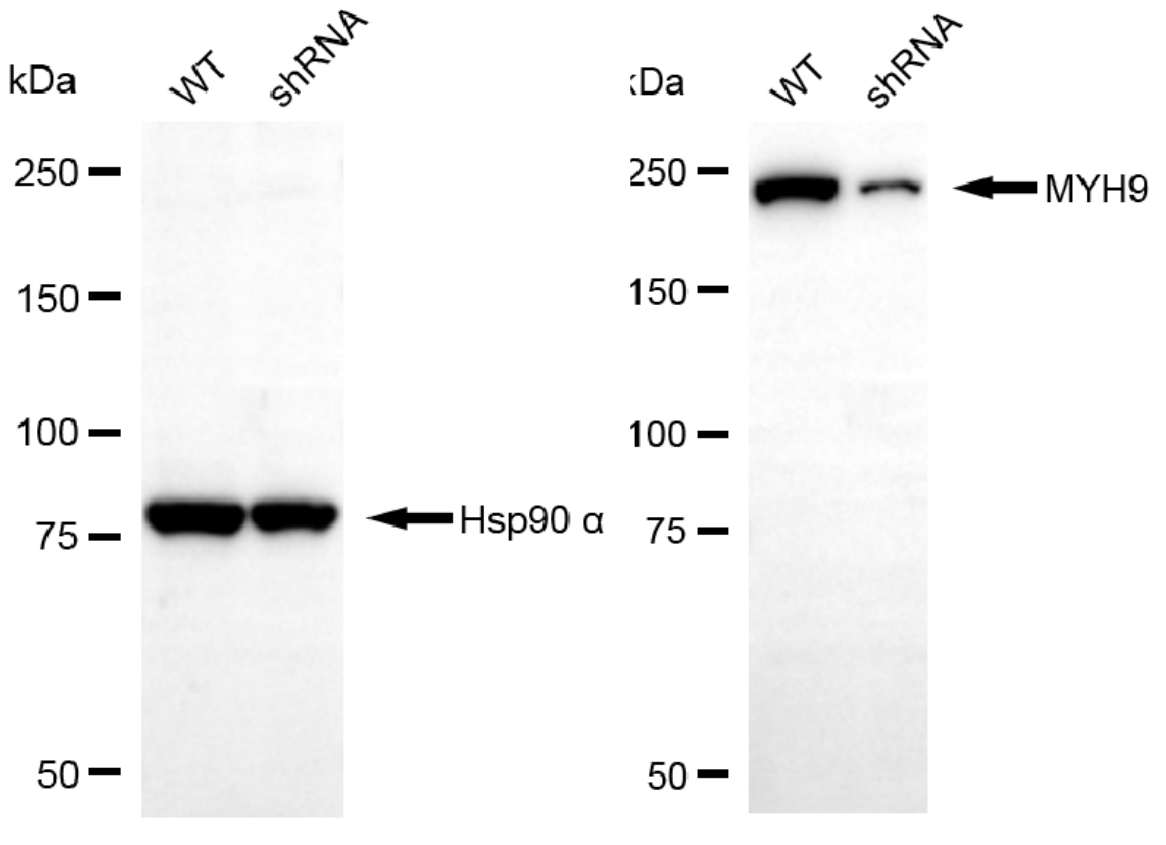
Validation Data

Human MYH9 Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	20.21
Knock-Down	30.84
ΔCt (Ct_{KD}-Ct_{WT})	10.63
% mRNA Reduction	⬇99.9%

RT-qPCR analysis. HeLa cells were infected with MYH9-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. MYH9 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 against MYH9 and Hsp90 α, respectively, followed by incubating with HRP-conjugated goat anti-mouse secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.