

Human YTHDC2 Knockdown Cell Line (WB-Validated)



Catalog #: C65667

Aliases

YTHDC2; YTH N6-Methyladenosine RNA Binding Protein C2; 3'-5' RNA Helicase YTHDC2; YTH Domain Containing 2; DKFZp564A186; FLJ10053; FLJ2194; HYTHDC2; Probable ATP-Dependent RNA Helicase YTHDC2; CsA-Associated Helicase-Like Protein; YTH Domain-Containing Protein 2; EC 3.6.4.13; EC 3.6.1; CAHL

Background

Gene Name: YTHDC2

NCBI Gene Entry: [64848](#)

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human YTHDC2 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

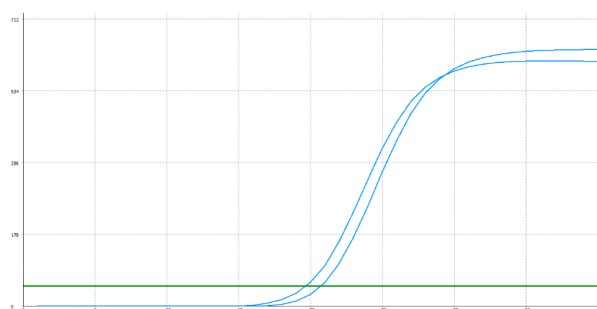
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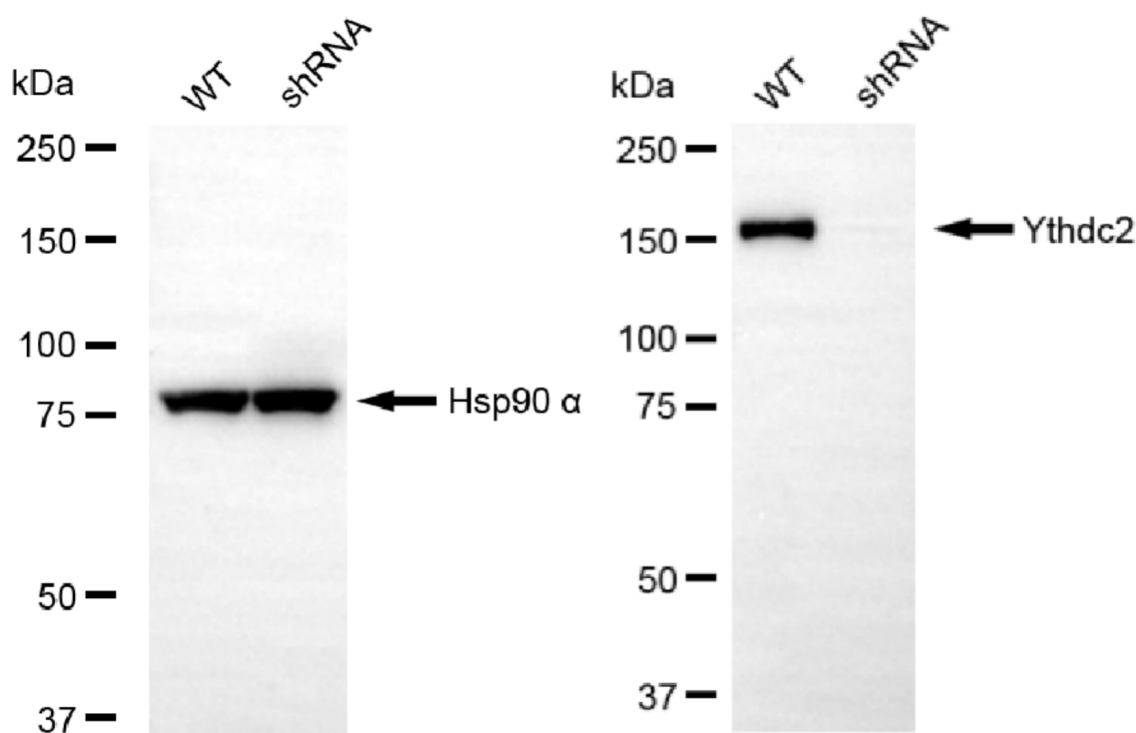
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Genotype	Ct Value
Wild-Type	19.42
Knock-Down	20.53
$\Delta Ct (Ct_{KD} - Ct_{WT})$	1.11
% mRNA Reduction	↓ 54%

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RT-qPCR analysis. HeLa cells were infected with YTHDC2-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. YTHDC2 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 Ythdc2 and Hsp90 α , respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed using NaQ™ ECL Substrate Kit.