

Human FOXO1 Knockdown Cell Line (WB-Validated)



Catalog #: C2551

Aliases

FOXO1; Forkhead Box O1; FOXO1A; FKH1; FKHR; Forkhead Box Protein O1A; Forkhead Box Protein O1; Forkhead, Drosophila, Homolog Of, In Rhabdomyosarcoma; Forkhead Homolog In Rhabdomyosarcoma; Forkhead In Rhabdomyosarcoma

Background

Gene Name: FOXO1

NCBI Gene Entry: [2308](#)

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human FOXO1 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

SUPPORT

SUPPORT@GENUINBIOTECH.COM
TEL: +1-540-855-7041

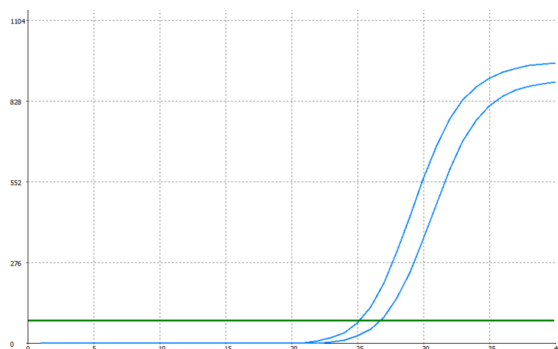
ORDERS

SALES@GENUINBIOTECH.COM
FAX: +1-540-855-7041

WWW.GENUINBIOTECH.COM

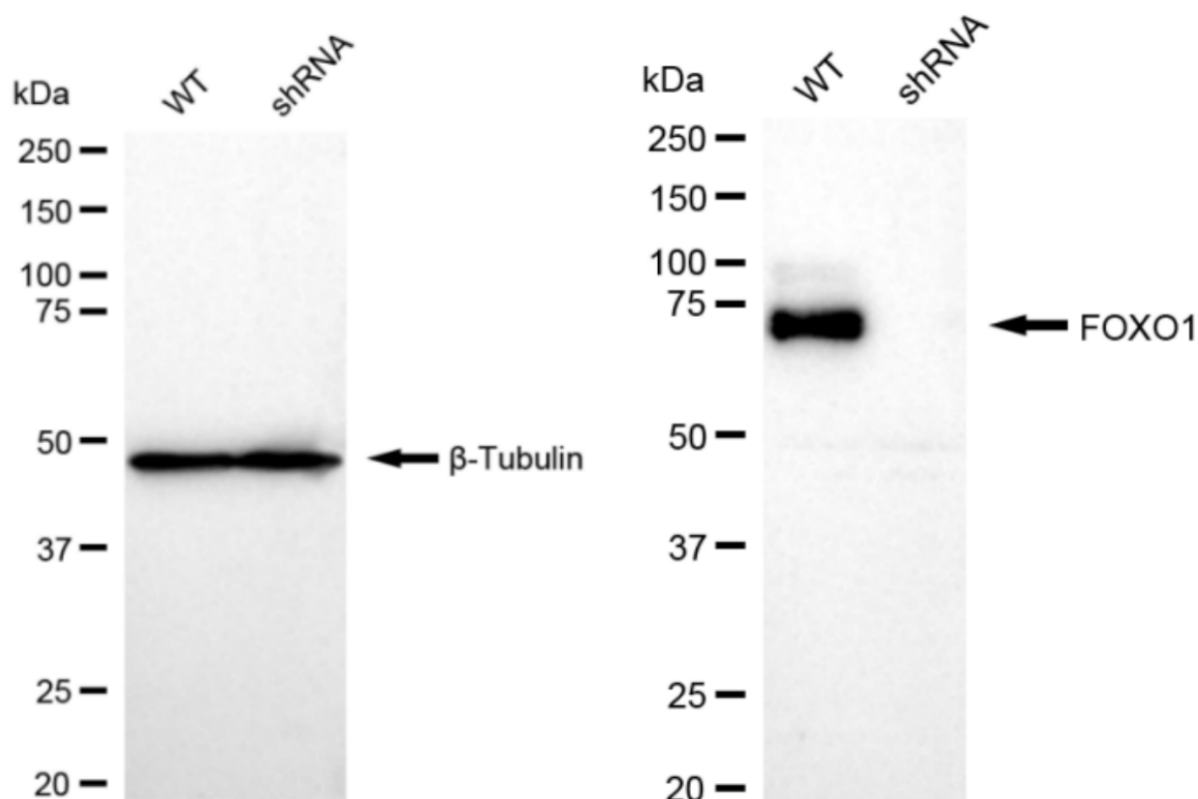
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Genotype	Ct Value
Wild-Type	24.93
Knock-Down	26.35
$\Delta Ct (Ct_{KD} - Ct_{WT})$	1.42
% mRNA Reduction	↓ 63%

RT-qPCR analysis. HeLa cells were infected with FOXO1-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: $(1 - 1/2^{\Delta Ct}) \times 100\%$.



Western blotting analysis. FOXO1 protein expression in wild-type (WT) and shRNA knockdown (KD) HeLa cells was detected using Western blotting. β -Tubulin served as a loading control. The blots were incubated with primary antibodies against FOXO1 and β -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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