Human TOP2A Knockdown Cell Line (WB-Validated)

Catalog #: C62625

Aliases

TOP2A; DNA Topoisomerase II Alpha 2; TOP2alpha; TOPIIA; TOP2; Topoisomerase (DNA) II Alpha 170kDa; DNA Topoisomerase II, Alpha Isozyme; DNA Topoisomerase 2-Alpha; DNA Topoisomerase (ATP-Hydrolyzing); DNA Topoisomerase II, 170 KD; EC 5.99.1.3; DNA Gyrase; EC 5.6.2.2; TP2A

Background

Gene Name: TOP2A
NCBI Gene Entry: 7153

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human TOP2A 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.

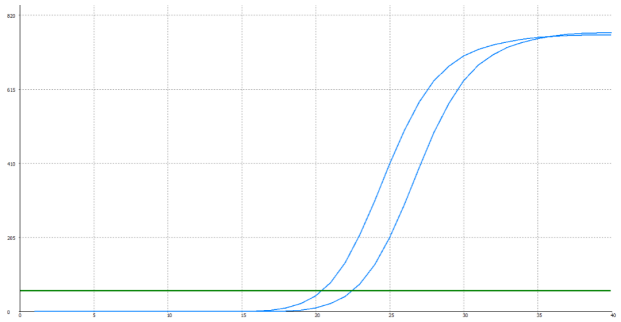
Instructions For Use

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

Note: This product is for research use only.

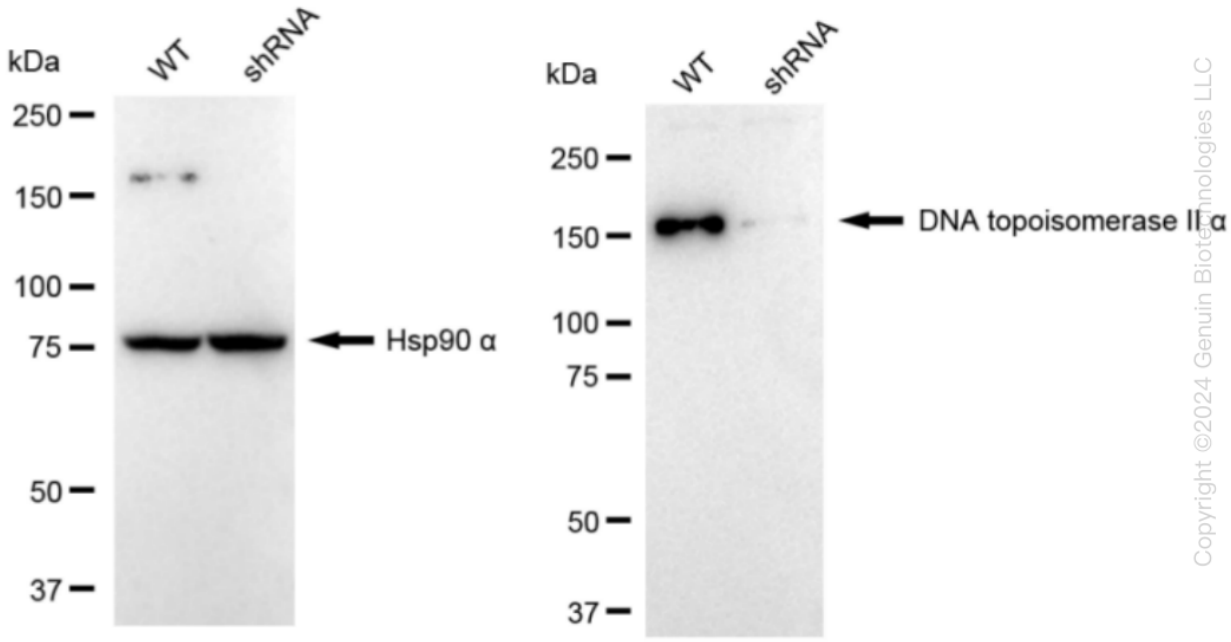
Validation Data

Human TOP2A Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	20.29
Knock-Down	22.36
ΔCt (Ct_{KD}-Ct_{WT})	2.07
% mRNA Reduction	⬇ 76%

RT-qPCR analysis. HeLa cells were infected with TOP2A-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. TOP2A 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 TOP2A and Hsp90 α, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.