

Human APEX1 Knockdown Cell Line (WB-Validated)



Catalog #: C61621

Aliases

APEX1; Apurinic/Apyrimidinic Endodeoxyribonuclease 1; REF1; HAP1; APEN; APE; APX; REF-1; APE-1; APEX; APEX Nuclease (Multifunctional DNA Repair Enzyme); DNA-(Apurinic Or Apyrimidinic Site) Endonuclease; Apurinic-Apyrimidinic Endonuclease 1; Redox Factor-1; APE1; APEX Nuclease (Multifunctional DNA Repair Enzyme); Deoxyribonuclease (Apurinic Or Apyrimidinic); Apurinic/Apyrimidinic (Antibodyasic) Endonuclease; DNA-(Apurinic Or Apyrimidinic Site) Lyase; AP Endonuclease Class I; AP Endonuclease 1; Protein REF-1; APEX Nuclease; EC 4.2.99.18; EC 3.1.11.2; AP Lyase

Background

Gene Name: APEX1
NCBI Gene Entry: [328](#)

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human APEX1 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

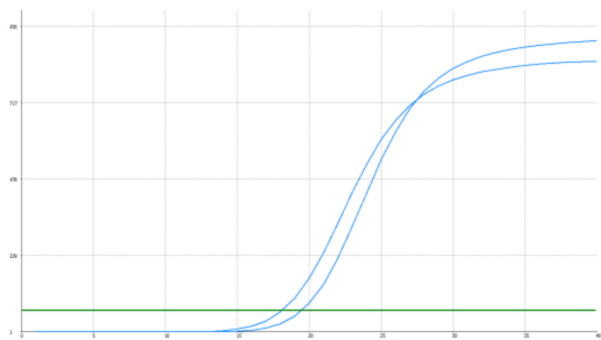
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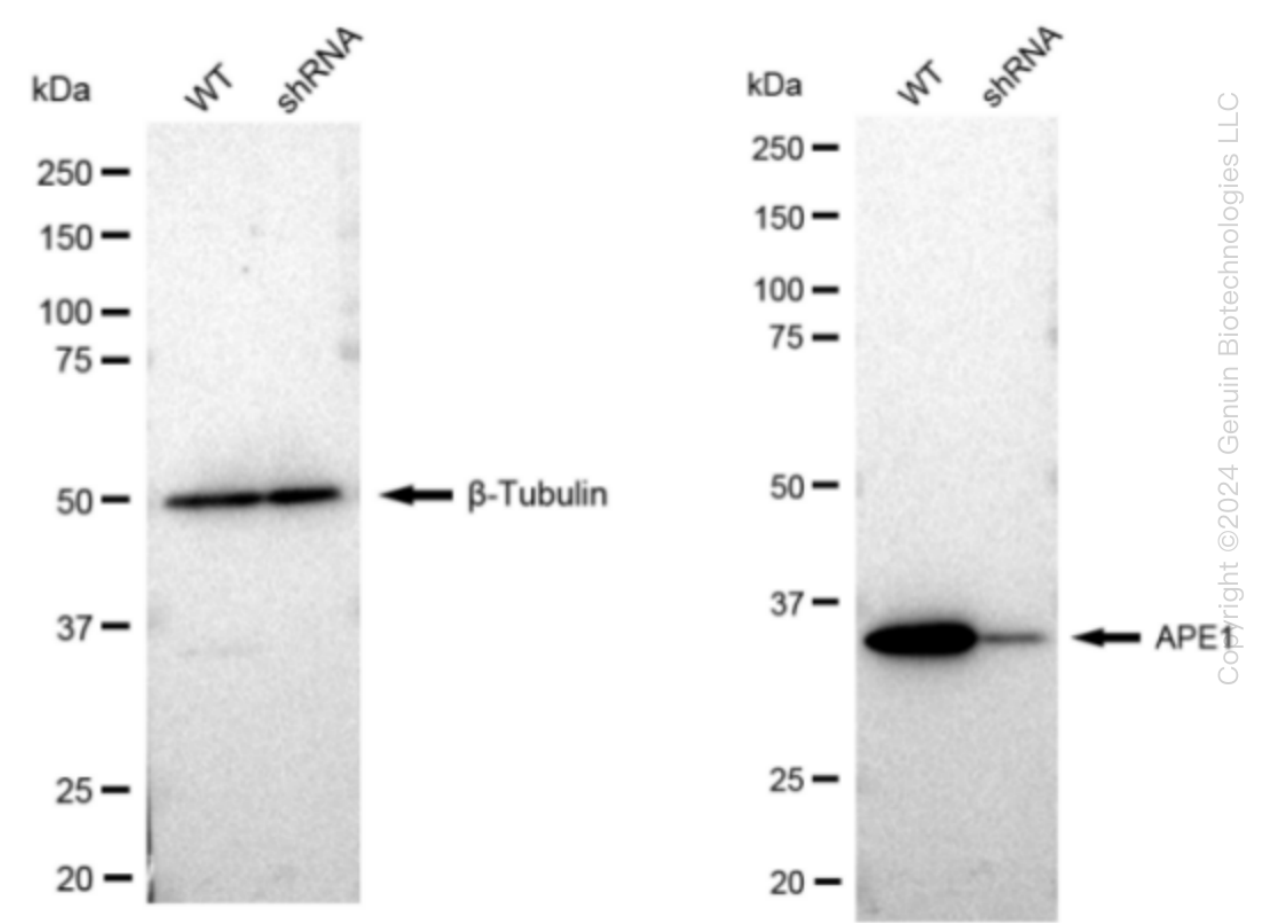
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Genotype	Ct Value
Wild-Type	17.95
Knock-Down	19.39
$\Delta Ct (Ct_{KD}-Ct_{WT})$	1.44
% mRNA Reduction	↓ 63%

RT-qPCR analysis. HeLa cells were infected with APEX1-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. APEX1 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

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PAGE 3

blots were incubated with primary antibodies (Cat#61682, 1:5,000) against APEX1 and β -Tubulin, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody (Cat#201, 1:20,000). Images were developed using FeQ™ ECL Substrate Kit (Cat#226).

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