Human XRCC6 Knockdown Cell Line (WB-Validated)

Catalog #: C61879

Aliases

XRCC6; X-Ray Repair Cross Complementing 6; X-Ray Repair Complementing Defective Repair In Chinese Hamster Cells 6; G22P1; KU70; ML8; X-Ray Repair Cross-Complementing Protein 6; Thyroid Autoantigen 70kDa (Ku Antigen); ATP-Dependent DNA Helicase 2 Subunit 1; Thyroid Autoantigen 70kD (Ku Antigen); 5'-Deoxyribose-5-Phosphate Lyase Ku70; Lupus Ku Autoantigen Protein P70; 70 KDa Subunit Of Ku Antigen; DNA Repair Protein XRCC6; Ku Autoantigen, 70kDa; 5'-DRP Lyase Ku70; D22S731; D22S671; CTC75; CTCBF; TLAA; ATP-Dependent DNA Helicase II, 70 KDa Subunit; ATP-Dependent DNA Helicase II 70 KDa Subunit; CTC Box Binding Factor 75 KDa Subunit; CTC Box-Binding Factor 75 KDa Subunit; Thyroid-Lupus Autoantigen P70; Ku Autoantigen P70 Subunit; Thyroid-Lupus Autoantigen; EC 4.2.99.-; EC 3.6.4.-; Ku70

Background

Gene Name: XRCC6
NCBI Gene Entry: 2547

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human XRCC6 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.

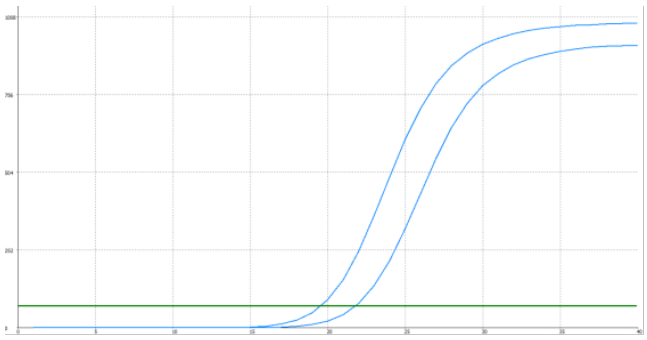
Instructions For Use

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

Human XRCC6 Knockdown Cell Line (WB-Validated)

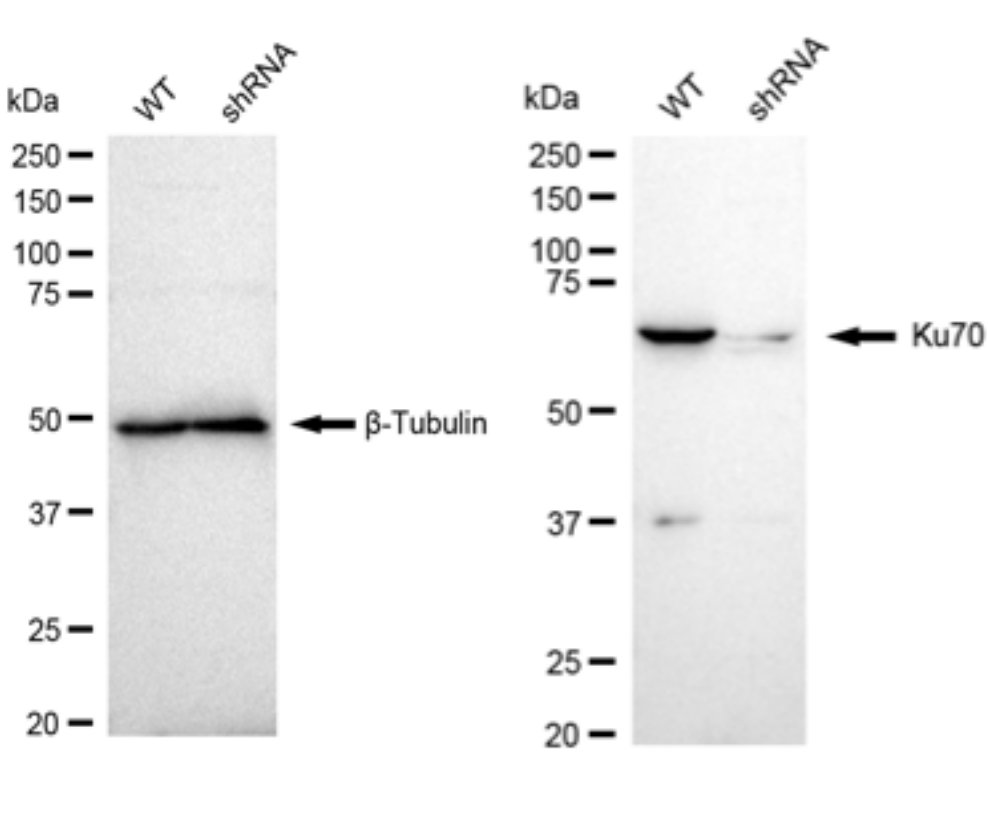
Note: This product is for research use only.

Validation Data



Genotype	Ct Value
Wild-Type	19.50
Knock-Down	21.61
ΔCt (CtKD-CtWT)	2.11
% mRNA Reduction	77%

RT-qPCR analysis. HeLa cells were infected with XRCC6-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. XRCC6 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 XRCC6 and β-Tubulin, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.