Human FANCC Knockdown Cell Line (WB-Validated)

Catalog #: C63882

Aliases

FANCC; FA Complementation Group C; FAC; FACC; FA3; Fanconi Anemia Complementation Group C; Fanconi Anemia Group C Protein; Protein FACC

Background

Gene Name: FANCC
NCBI Gene Entry: 2176

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human FANCC 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.

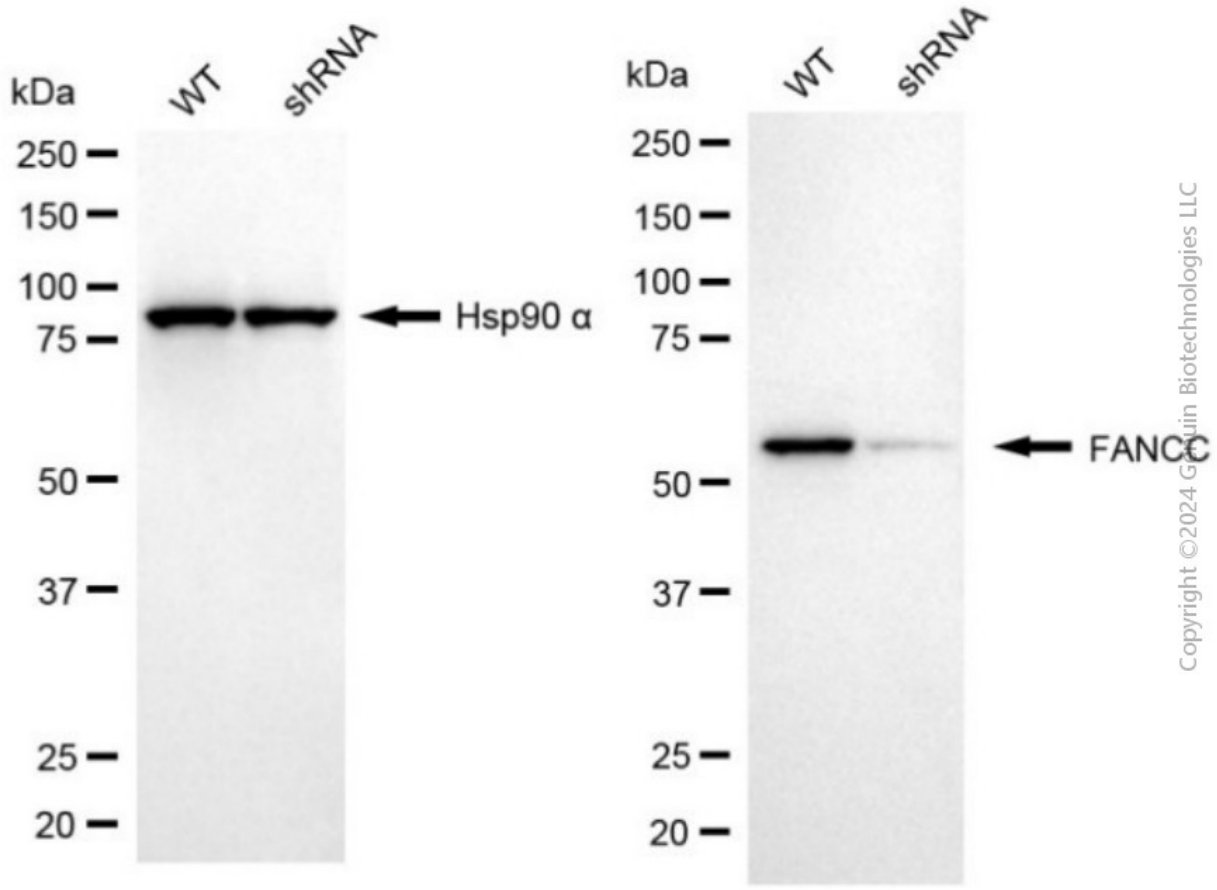
Instructions For Use

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

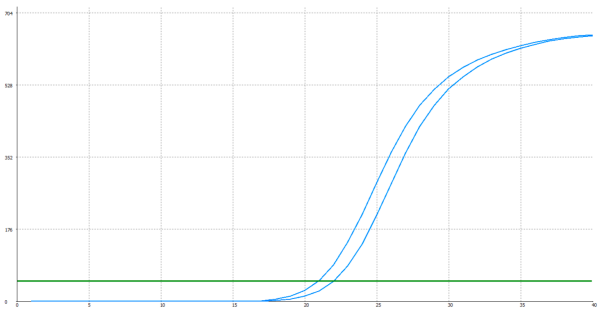
Note: This product is for research use only.

Validation Data

Human FANCC Knockdown Cell Line (WB-Validated)



Western blotting analysis. FANCC 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 FANCC and Hsp90 α, respectively, followed by incubating with HRP-conjugated goat anti-mouse secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.



Genotype	Ct Value
Wild-Type	20.81
Knock-Down	21.87
ΔCt (Ct_{KD}-Ct_{WT})	1.06
% mRNA Reduction	⬇ 52%

RT-qPCR analysis. HeLa cells were infected with FANCC-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%.