Human CBFB Knockdown Cell Line (WB-Validated)

Catalog #: C61442

Aliases

CBFB; Core-Binding Factor Subunit Beta; PEBP2B; SL3/AKV Core-Binding Factor Beta Subunit; SL3-3 Enhancer Factor 1 Subunit Beta; Core-Binding Factor Beta Subunit; PEBP2-Beta; PEA2-Beta; CBF-Beta; Polyomavirus Enhancer Binding Protein 2, Beta Subunit; Polyomavirus Enhancer-Binding Protein 2 Beta Subunit; SL3-3 Enhancer Factor 1 Beta Subunit; Core-Binding Factor, Beta Subunit; CLCD2

Background

Gene Name: CBFB
NCBI Gene Entry: 865

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human CBFB 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.

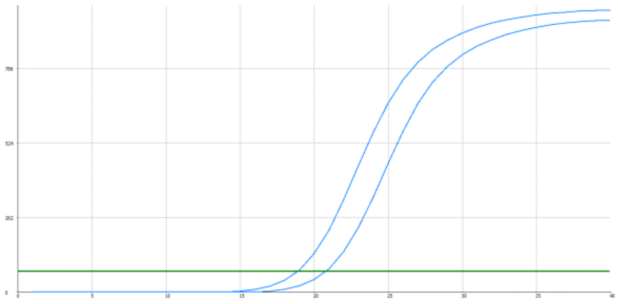
Instructions For Use

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

Note: This product is for research use only.

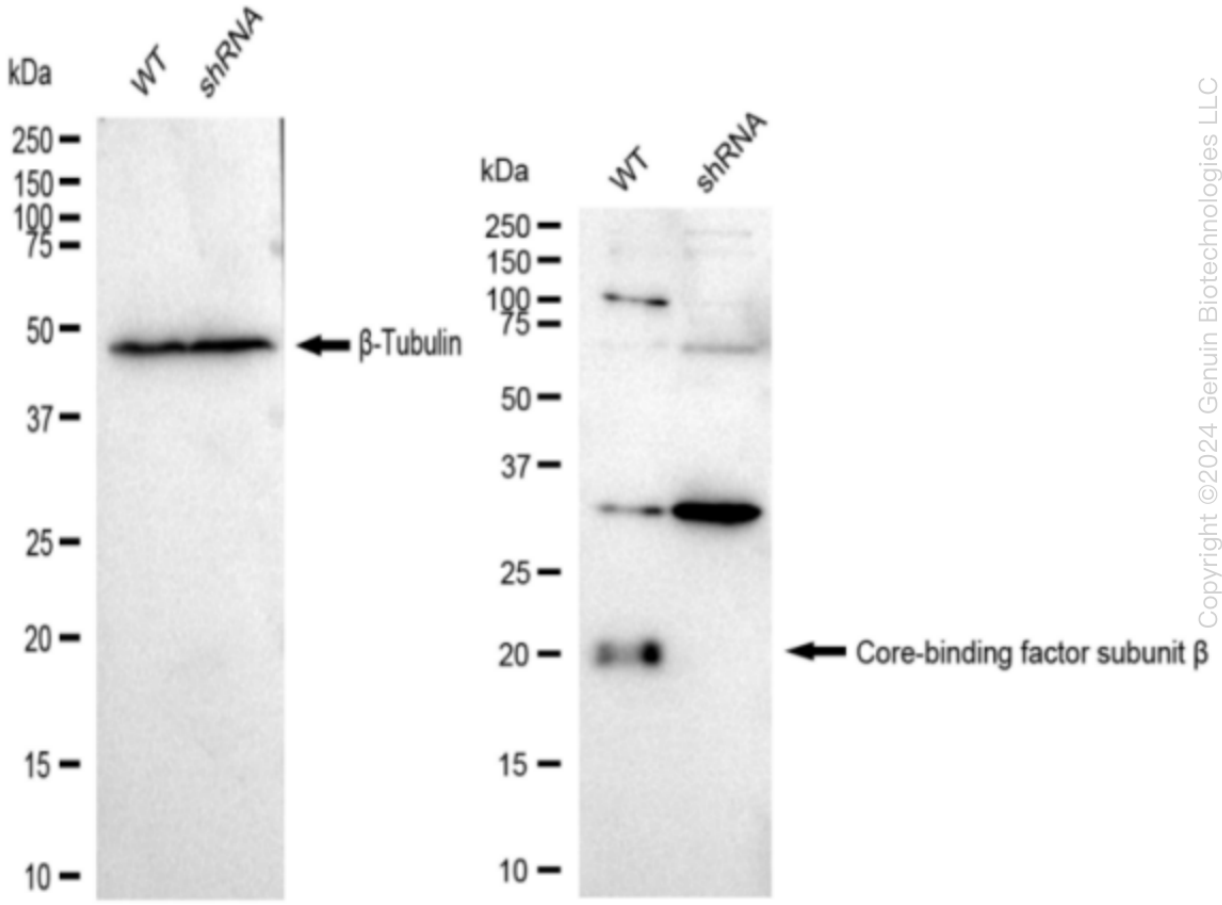
Validation Data

Human CBFB Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	18.83
Knock-Down	20.64
ΔCt (Ct_{KD}-Ct_{WT})	1.81
% mRNA Reduction	⬇ 72%

RT-qPCR analysis. HeLa cells were infected with CBFB-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. CBFB protein expression in wild-type (WT) and shRNA knockdown (KD) HeLa cells was detected using Western blotting. β-Tubulin α served as a loading control. The blots were incubated with primary antibodies (Cat#61442, 1:5,000) against CBFB 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).