Human CPSF6 Knockdown Cell Line (WB-Validated)

Catalog #: C65204

Aliases

CPSF6; Cleavage And Polyadenylation Specific Factor 6; CFIM68; Cleavage Factor Im Complex 68 KDa Subunit; HPBRII-4; HPBRII-7; CFIM72; CFIM; Cleavage And Polyadenylation Specificity Factor 68 KDa Subunit; Cleavage And Polyadenylation Specificity Factor Subunit 6; Cleavage And Polyadenylation Specific Factor 6, 68kDa; Pre-MRNA Cleavage Factor Im 68 KDa Subunit; CPSF 68 KDa Subunit; Protein HPBRII-4/7; Cleavage And Polyadenylation Specific Factor 6, 68kD Subunit; Pre-MRNA Cleavage Factor I, 68kD Subunit; Pre-MRNA Cleavage Factor Im (68kD); CFIm68

Background

Gene Name: CPSF6
NCBI Gene Entry: 11052

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human CPSF6 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.

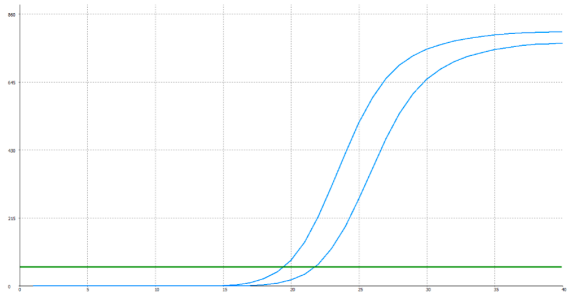
Instructions For Use

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

Note: This product is for research use only.

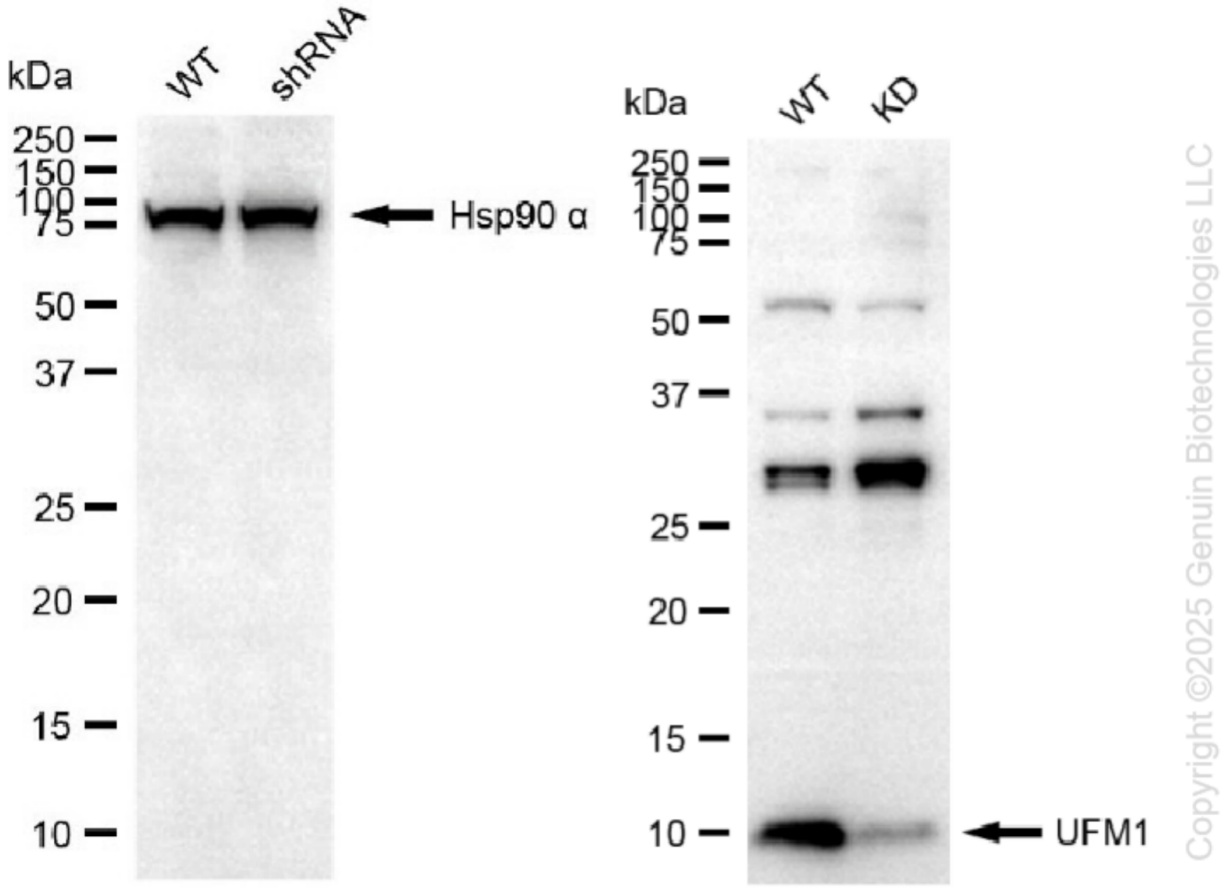
Validation Data

Human CPSF6 Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	19.33
Knock-Down	21.54
ΔCt (Ct_{KD}-Ct_{WT})	2.21
% mRNA Reduction	⬇ 78%

RT-qPCR analysis. HeLa cells were infected with CPSF6-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.CPSF6 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 CPSF6 and Hsp90 α, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.