

# Human TGFB1 Knockdown Cell Line (WB-Validated)



**Catalog #: C61873**

## Aliases

TGFB1; Transforming Growth Factor Beta 1; TGFB; CED; Transforming Growth Factor Beta-1 Proprotein; Prepro-Transforming Growth Factor Beta-1; TGFbeta; DPD1; Diaphyseal Dysplasia 1, Progressive; Transforming Growth Factor, Beta 1; Transforming Growth Factor Beta 1; CamuRati-Engelmann Disease; Latency-Associated Peptide; TGF-Beta-1; TGF-Beta1; IBDIMDE; TGFBETA; LAP

## Background

Gene Name: TGFB1

NCBI Gene Entry: [7040](#)

## Storage

Store at liquid nitrogen for 1 year.

## Kit Components

1. Human TGFB1 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

SUPPORT@GENUINBIOTECH.COM  
TEL: +1-540-855-7041

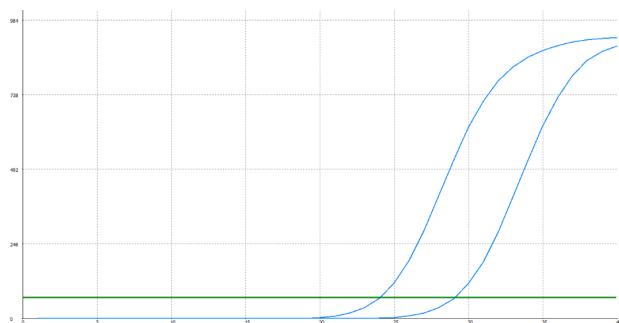
### ORDERS

SALES@GENUINBIOTECH.COM  
FAX: +1-540-855-7041

[WWW.GENUINBIOTECH.COM](http://WWW.GENUINBIOTECH.COM)

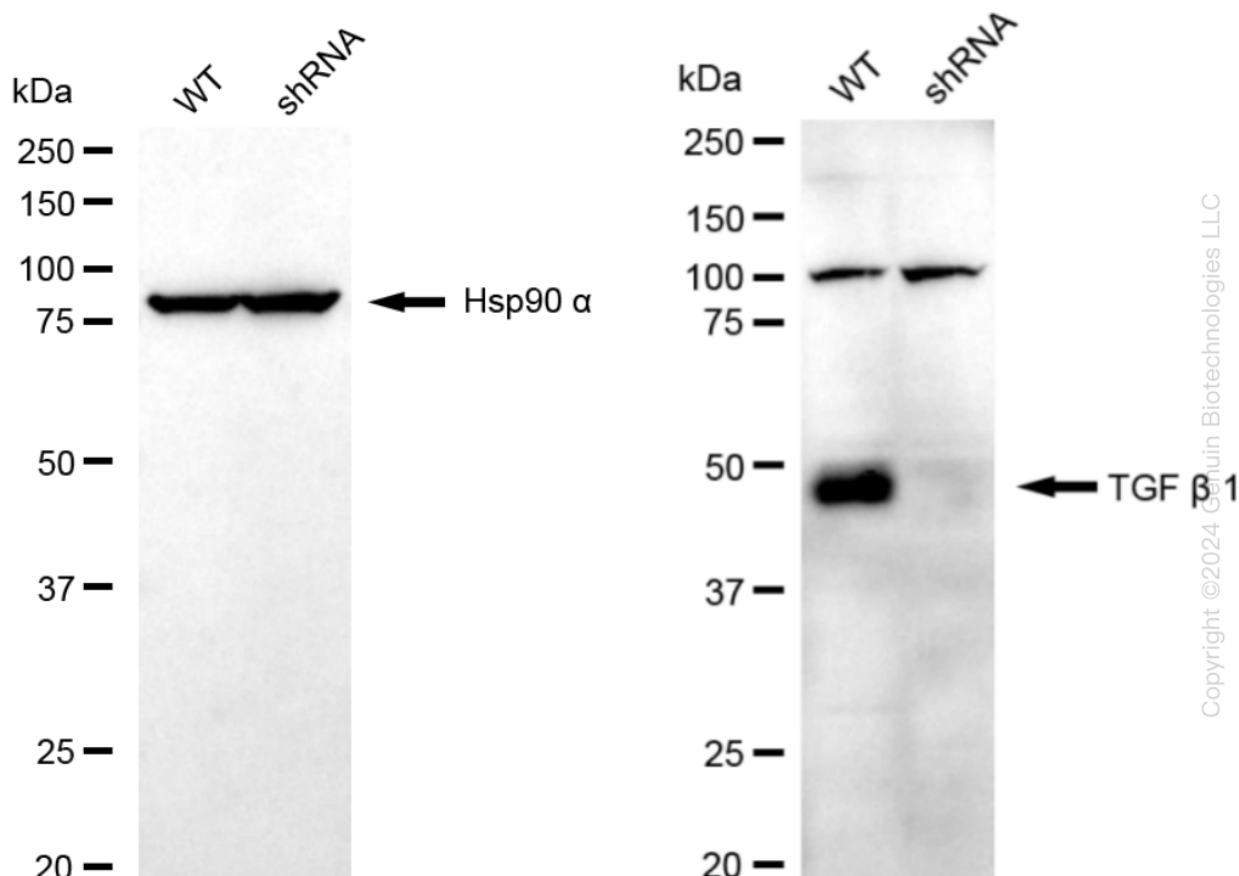
## Human TGFB1 Knockdown Cell Line (WB-Validated)

PAGE 2



Genotype	Ct Value
Wild-Type	23.97
Knock-Down	28.94
$\Delta Ct (Ct_{KD} - Ct_{WT})$	4.97
% mRNA Reduction	↓ 97%

RT-qPCR analysis. HeLa cells were infected with TGFB1-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. TGFB1 protein expression in wild-type (WT) and shRNA knockdown (KD) HeLa cells was detected using Western blotting. Hsp90  $\alpha$  served as a loading control. The blots were incubated with primary antibodies against TGFB1 and Hsp90  $\alpha$ , respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.

### SUPPORT

SUPPORT@GENUINBIOTECH.COM  
TEL: +1-540-855-7041

### ORDERS

SALES@GENUINBIOTECH.COM  
FAX: +1-540-855-7041

[WWW.GENUINBIOTECH.COM](http://WWW.GENUINBIOTECH.COM)