# Human LEFTY2 Knockdown Cell Line (WB-Validated)

# Catalog #: C61190

## Aliases

LEFTY2; Left-Right Determination Factor 2; LEFTYA; LEFTA; TGFB4; EBAF; Endometrial Bleeding-Associated Factor; Left-Right Determination Factor A; Transforming Growth Factor Beta-4; Protein Lefty-2; Protein Lefty-A; TGF-Beta-4; Endometrial Bleeding Associated Factor (Left-Right Determination, Factor A; Transforming Growth Factor Beta Superfamily); Transforming Growth Factor, Beta-4 (Endometrial Bleeding-Associated Factor; LEFTY A)

## Background

Gene Name: LEFTY2
NCBI Gene Entry: 7044

## Storage

Store at liquid nitrogen for 1 year.

## Kit Components

1. Human LEFTY2 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

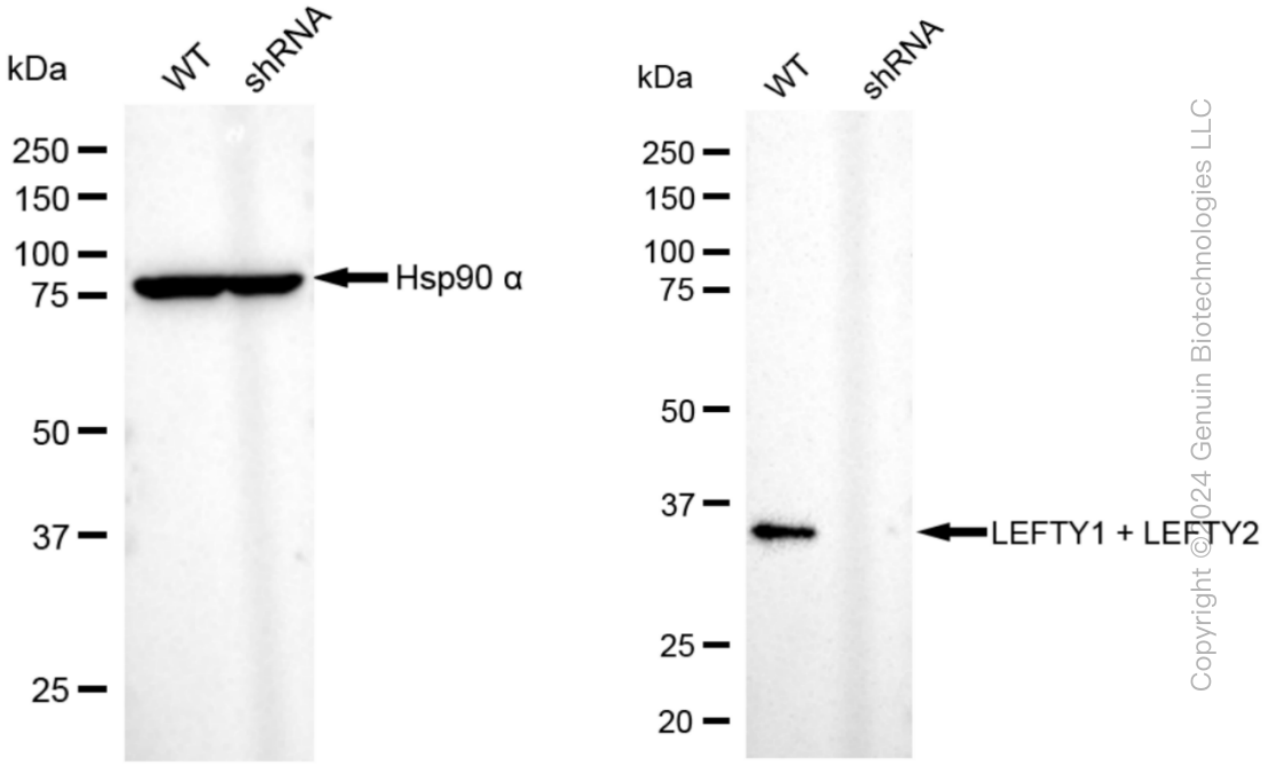
This knockdown cell line should be paired with wild-type cell line for use.

**Note:** This product is for research use only.

### Validation Data

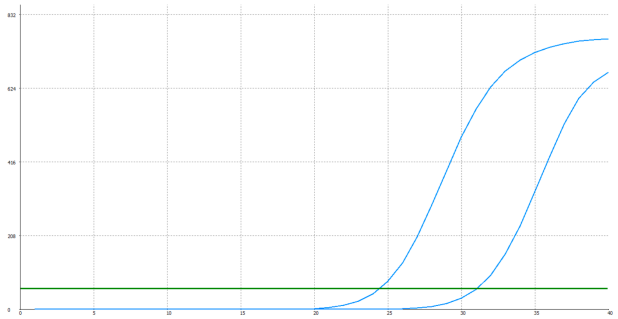
# Human LEFTY2 Knockdown Cell Line (WB-Validated)








Western blotting analysis. LEFTY2 protein expression in wild-type (WT) and shRNA knockdown (KD) HT-1080 cells was detected using Western blotting. Hsp90 α served as a loading control. The blots were incubated with primary antibodies against LEFTY2 and Hsp90 α, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.



| Genotype | Ct Value |
|---|---|
| Wild-Type | 24.31 |
| Knock-Down | 30.65 |
| $\Delta Ct$ ($Ct_{KD}$-$Ct_{WT}$) | 6.34 |
| % mRNA Reduction | ⬇ 99% |



RT-qPCR analysis. HT-1080 cells were infected with LEFTY2-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%.