## **Human TSC2 Knockdown Cell Line (WB-Validated)**



## **Catalog #: C7712**

#### **Aliases**

TSC2; Tuberin; PPP1R160; TSC4; LAM; Protein Phosphatase 1, Regulatory Subunit 160; Tuberous Sclerosis 2 Protein; Tuberous Sclerosis 2

## **Background**

Gene Name: TSC2

NCBI Gene Entry: 7249

### **Storage**

Store at liquid nitrogen for 1 year.

## **Kit Components**

- 1. Human TSC2 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.

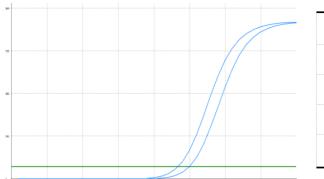
### **Instructions For Use**

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

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

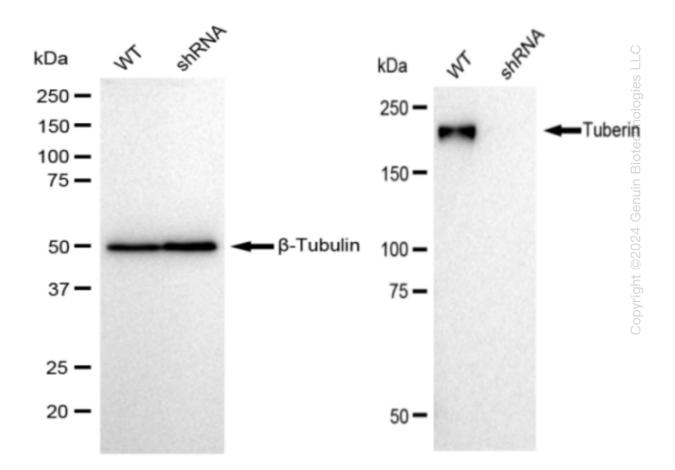
#### **Validation Data**

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Genotype	Ct Value
Wild-Type	23.23
Knock-Down	24.81
$\Delta Ct (Ct_{KD}-Ct_{WT})$	1.58
% mRNA Reduction	<b>↓</b> 67%

RT-qPCR analysis. HeLa cells were infected with TSC2-specific shRNA lentiviral particles, total RNA was extracted from wild-type and knockdown cells, RT-qPCR was performed using gene-specific primers.  $\Delta$ Ct (CtKD-CtWT) was used to calculate mRNA reduction (%) between wild-type and knockdown cells using the following formula:  $(1-1/2\Delta$ Ct) x 100%.



Western blotting analysis. TSC2 protein expression in wild-type (WT) and shRNA knockdown (KD) HT-1080 cells was detected using Western blotting. β-Tubulin served as a loading control.

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# **Human TSC2 Knockdown Cell Line (WB-Validated)**

The blots were incubated with primary antibodies (Cat#69712, 1:5,000) against TSC2 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<sup>TM</sup> ECL Substrate Kit (Cat#226).