Human SMURF2 Knockdown Cell Line (WB-Validated)

Catalog #: C63756

Aliases

SMURF2; SMAD Specific E3 Ubiquitin Protein Ligase 2; HECT-Type E3 Ubiquitin Transferase SMURF2; SMAD Ubiquitination Regulatory Factor 2; E3 Ubiquitin-Protein Ligase SMURF2; HSMURF2; SMAD-Specific E3 Ubiquitin-Protein Ligase 2; E3 Ubiquitin Ligase SMURF2; EC 2.3.2.26; EC 6.3.2

Background

Gene Name: SMURF2
NCBI Gene Entry: 64750

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human SMURF2 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.

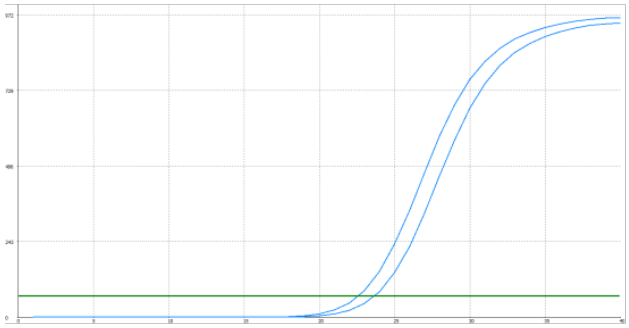
Instructions For Use

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

Note: This product is for research use only.

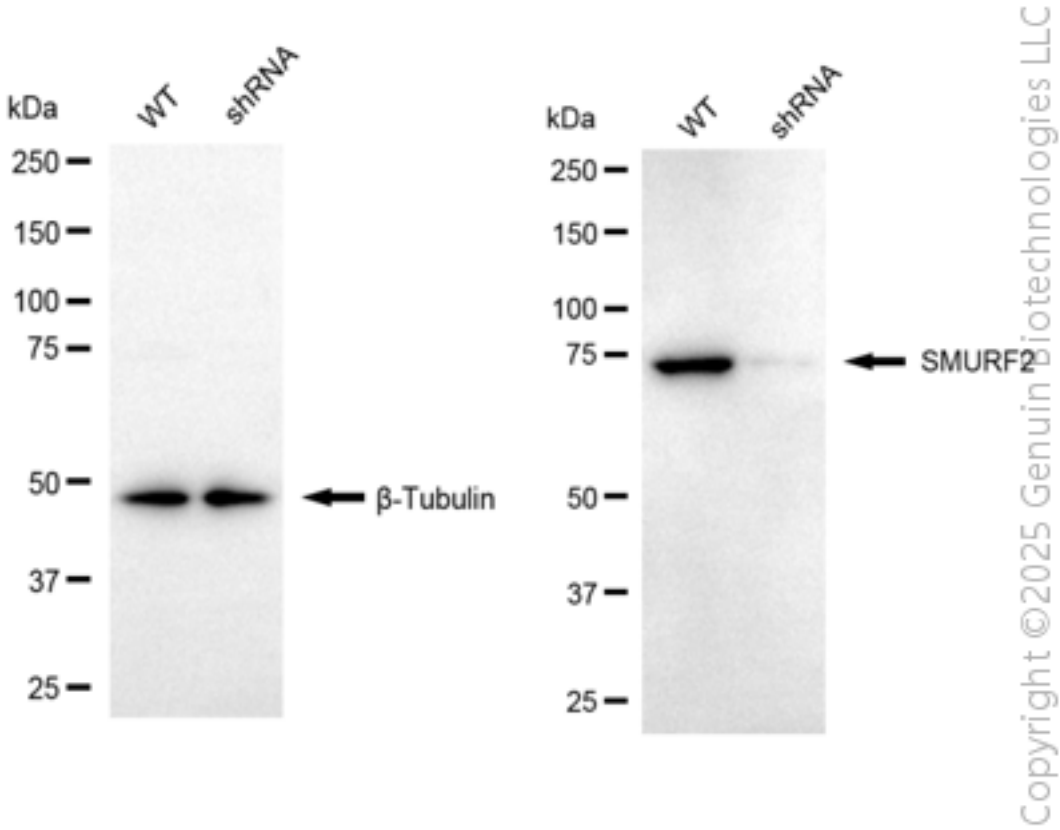
Validation Data

Human SMURF2 Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	22.57
Knock-Down	23.60
ΔCt (CtKD-CtWT)	1.03
% mRNA Reduction	51%

RT-qPCR analysis. HeLa cells were infected with SMURF2-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. SMURF2 protein expression in wild-type (WT) and shRNA knockdown (KD) HeLa cells was detected using Western blotting. β-Tubulin served as a loading control. The blots were incubated with primary antibodies against SMURF2 and β-Tubulin, respectively, followed by incubating with HRP-conjugated goat anti-mouse secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.