

# Human SMC3 Knockdown Cell Line (WB-Validated)



**Catalog #: C62709**

## Aliases

SMC3; Structural Maintenance Of Chromosomes 3; SMC3L1; HCAP; BAM; Bamacan; CSPG6; Basement Membrane-Associated Chondroitin Proteoglycan; Structural Maintenance Of Chromosomes Protein 3; Chondroitin Sulfate Proteoglycan 6 (Bamacan); Chromosome-Associated Polypeptide; SMC Protein 3; BMH; Chondroitin Sulfate Proteoglycan 6; Bamacan Proteoglycan; CDLS3; SMC-3

## Background

Gene Name: SMC3

NCBI Gene Entry: [9126](#)

## Storage

Store at liquid nitrogen for 1 year.

## Kit Components

1. Human SMC3 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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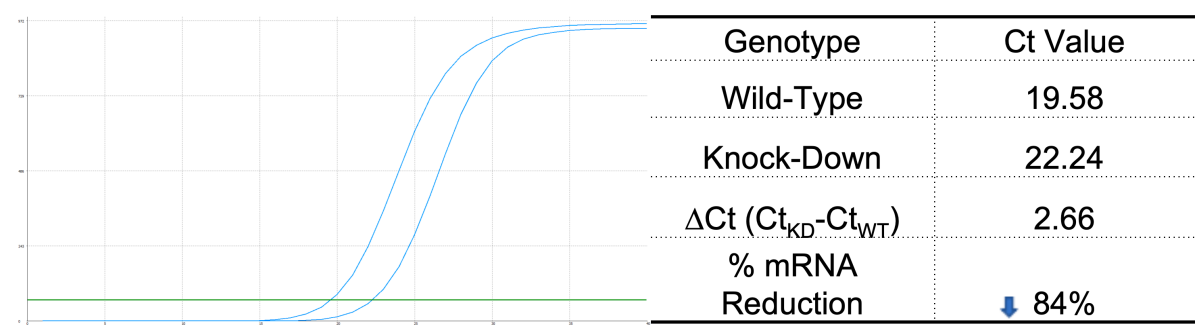
### SUPPORT

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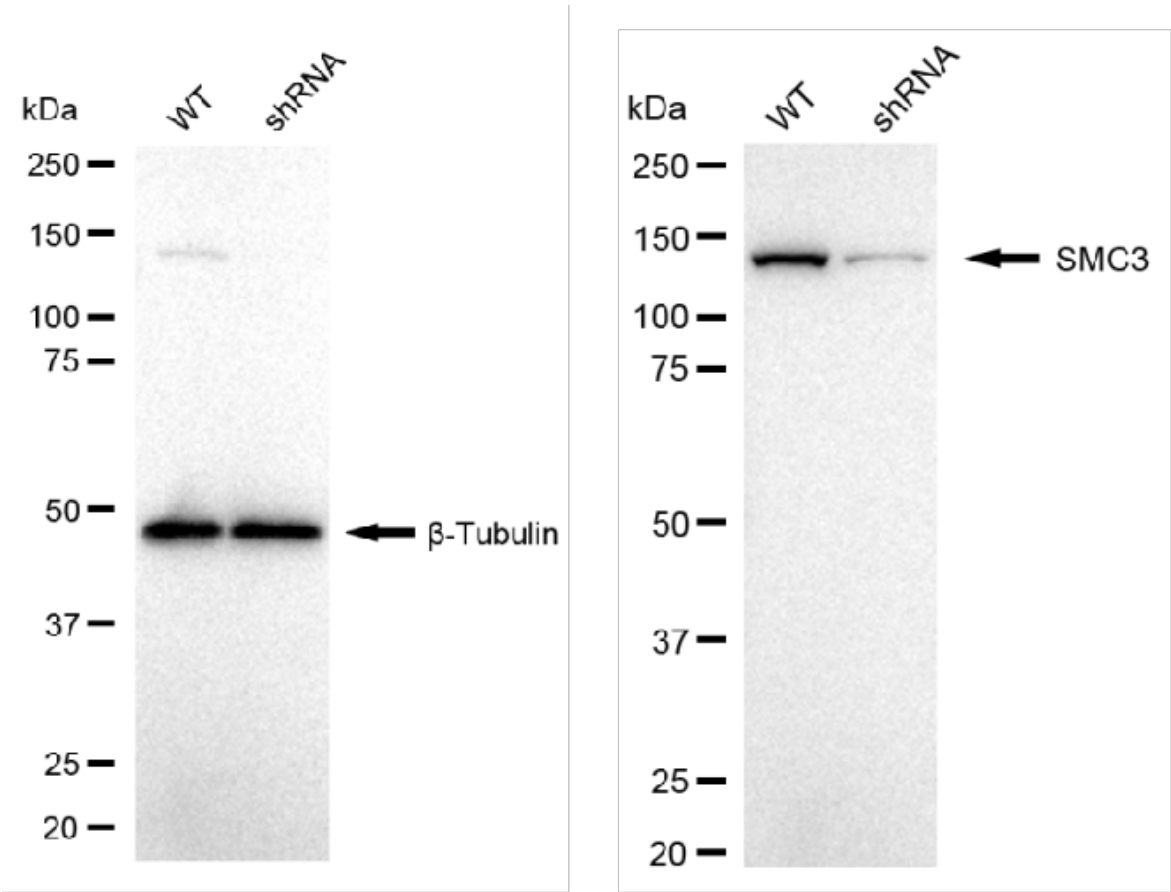
### ORDERS

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RT-qPCR analysis. HeLa cells were infected with SMC3-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. SMC3 protein expression in wild-type (WT) and shRNA knockdown (KD) HeLa cells was detected using Western blotting.  $\beta$ -Tubulin served as a loading control. The blots were incubated with primary antibodies against SMC3 and  $\beta$ -Tubulin, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.