Human SMARCC1 Knockdown Cell Line (WB-Validated)

Catalog #: C61706

Aliases

SMARCC1; SWI/SNF Related, Matrix Associated, Actin Dependent Regulator Of Chromatin Subfamily C Member 1; BAF155; CRACC1; SRG3; SWI/SNF-Related Matrix-Associated Actin-Dependent Regulator Of Chromatin Subfamily C Member 1; SWI/SNF Complex Subunit SMARCC1; SWI/SNF Complex 155 KDa Subunit; BRG1-Associated Factor 155; Rsc8; SWI/SNF Related, Matrix Associated, Actin Dependent Regulator Of; Chromatin, Subfamily C, Member 1; Mammalian Chromatin Remodeling Complex BRG1-Associated Factor 155; Chromatin Remodeling Complex BAF155 Subunit; HYC5; SWI3; RSC8

Background

Gene Name: SMARCC1
NCBI Gene Entry: 6599

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human SMARCC1 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.

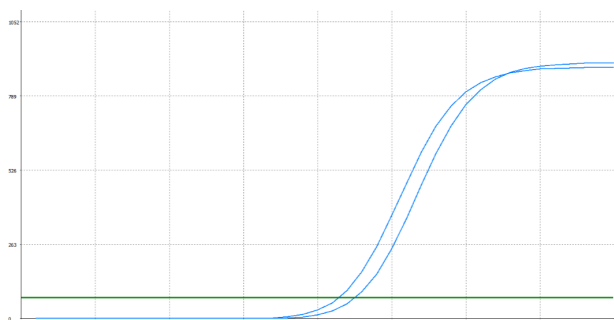**Note:** This product is for research use only.

Validation Data

Human SMARCC1 Knockdown Cell Line (WB-Validated)

Genotype	Ct Value
Wild-Type	21.16
Knock-Down	22.29
ΔCt (Ct$_{KD}$-Ct$_{WT}$)	1.13
% mRNA Reduction	⬇ 54%

RT-qPCR analysis. HeLa cells were infected with SMARCC1-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%.
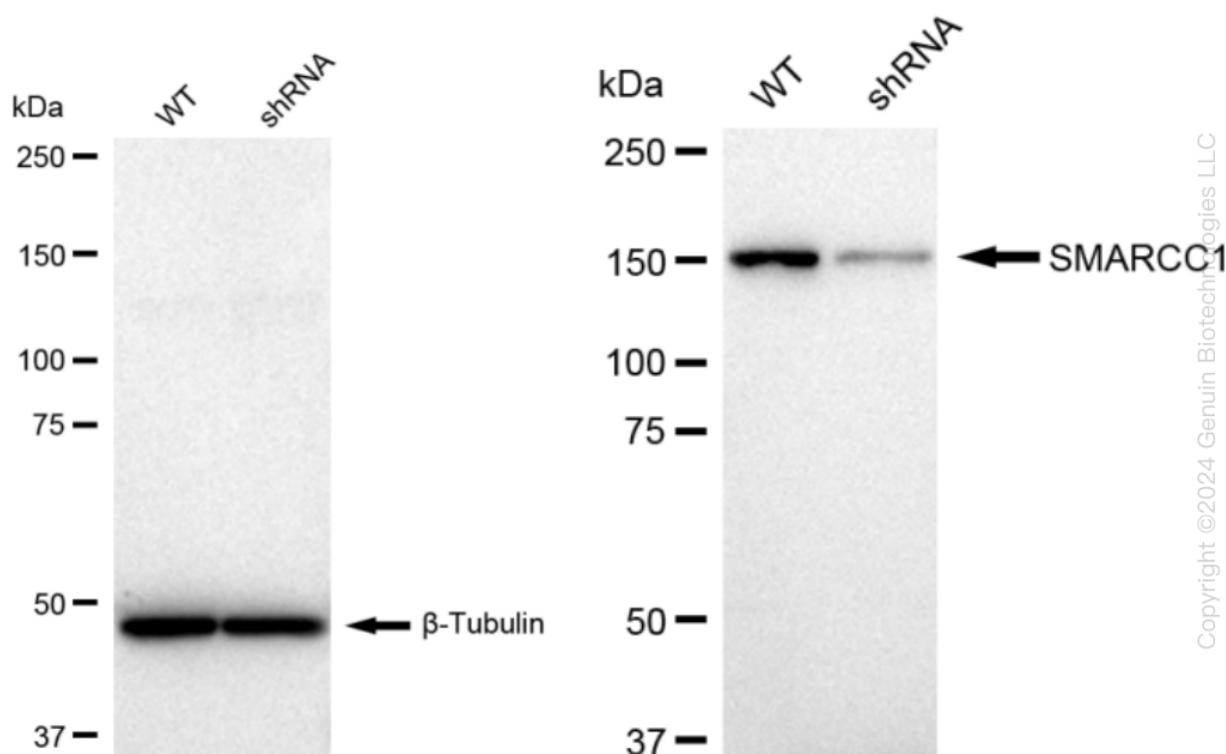
Western blotting analysis. SMARCC1 protein expression in wild-type (WT) and shRNA knockdown (KD) HeLa cells was detected using Western blotting. β-Tubulin served as a loading control. The blots were incubated with primary antibodies against SMARCC1 and β-Tubulin, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.

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