Human SMARCD1 Knockdown Cell Line (WB-Validated)

Catalog #: C65659

Aliases

SMARCD1; SWI/SNF Related BAF Chromatin Remodeling Complex Subunit D1; BAF60A; SWI/SNF Related, Matrix Associated, Actin Dependent Regulator Of Chromatin, Subfamily D, Member 1; CRACD1; Rsc6p; SWI/SNF-Related Matrix-Associated Actin-Dependent Regulator Of Chromatin Subfamily D Member 1; 60 KDa BRG-1/Brm-Associated Factor Subunit A; BRG1-Associated Factor 60A; Mammalian Chromatin Remodeling Complex BRG1-Associated Factor 60A; Chromatin Remodeling Complex BAF60A Subunit; SWI/SNF Complex 60 KDa Subunit A; SWI/SNF Complex 60 KDa Subunit; Swp73-Like Protein; CSS11

Background

Gene Name: SMARCD1
NCBI Gene Entry: 6602

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human SMARCD1 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.

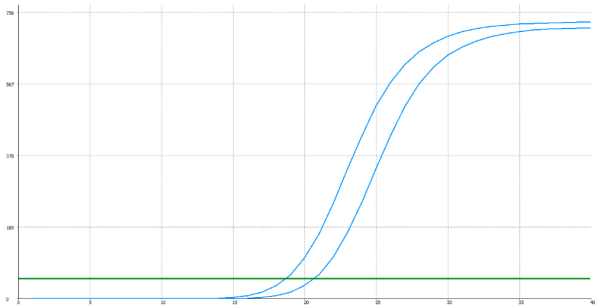
Instructions For Use

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

Note: This product is for research use only.

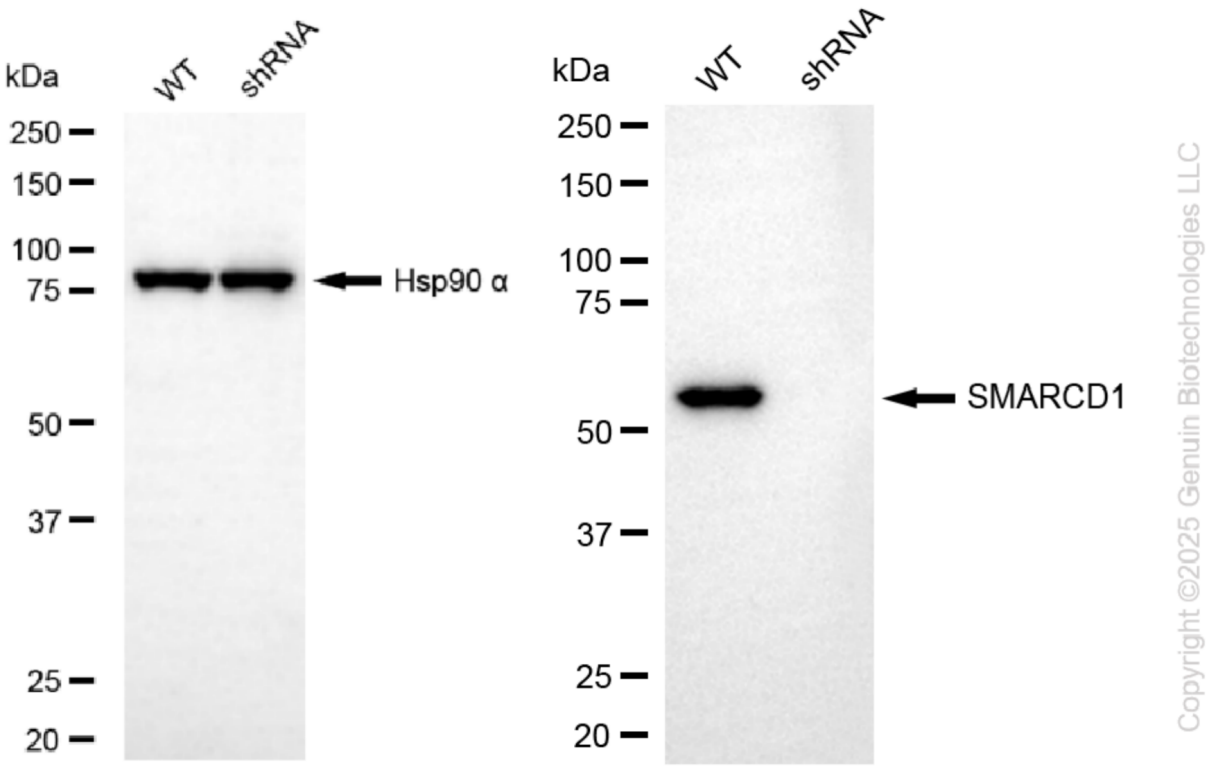
Validation Data

Human SMARCD1 Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	18.63
Knock-Down	20.55
ΔCt (Ct_{KD}-Ct_{WT})	1.92
% mRNA Reduction	⬇ 74%

RT-qPCR analysis. HeLa cells were infected with SMARCD1-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.SMARCD1 protein expression in wild-type (WT) and shRNA knockdown (KD) HeLa cells was detected using Western blotting. Hsp90 α served as a loading control. The blots were incubated with primary antibodies against SMARCD1 and Hsp90 α, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed using NaQ™ ECL Substrate Kit.