Human CTNNA1 Knockdown Cell Line (WB-Validated)

Catalog #: C61375

Aliases

CTNNA1; Catenin Alpha 1; CAP102; Renal Carcinoma Antigen NY-REN-13; Alpha-E-Catenin; Catenin Alpha-1; Catenin (Cadherin-Associated Protein), Alpha 1 (102kD); Catenin (Cadherin-Associated Protein), Alpha 1, 102kDa; Epididymis Secretory Sperm Binding Protein; Cadherin-Associated Protein; Alpha E-Catenin; MDBS2; MDPT2

Background

Gene Name: CTNNA1
NCBI Gene Entry: 1495

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human CTNNA1 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.

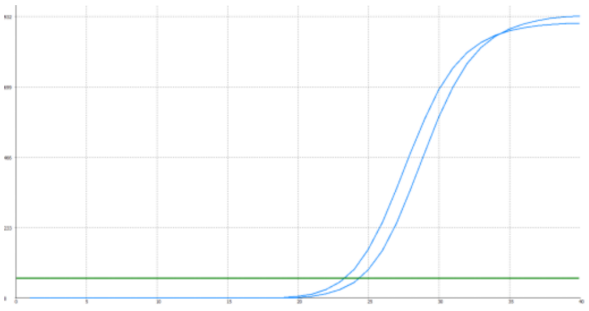
Instructions For Use

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

Note: This product is for research use only.

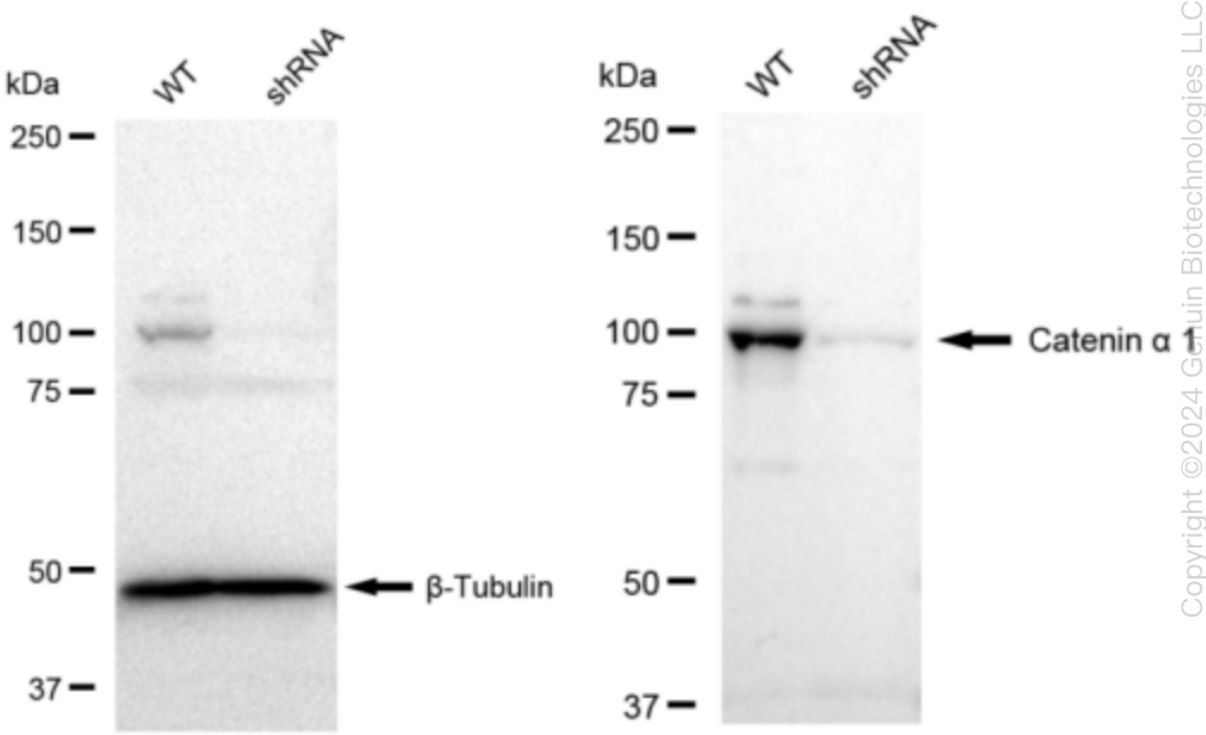
Validation Data

Human CTNNA1 Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	23.27
Knock-Down	24.34
ΔCt (Ct_{KD}-Ct_{WT})	1.07
% mRNA Reduction	⬇ 52%

RT-qPCR analysis. HeLa cells were infected with CTNNA1-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. CTNNA1 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 (Cat#61375, 1:5,000) against CTNNA1 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™ ECL Substrate Kit (Cat#226).