WB-Validated ASCC2 Lentiviral shRNA Knockdown Kit



Catalog #: V63525

Aliases

ASCC2; Activating Signal Cointegrator 1 Complex Subunit 2; ASC1p100; ASC-1 Complex Subunit P100; Trip4 Complex Subunit P100; DKFZp586O0223; FLJ21588; ASC 1 Complex Subunit P100; ASC1P100; P100; RQT3

Background

Gene Name: ASCC2 NCBI Gene Entry: 84164

Storage

Store at -80 °C for one year.

Kit Components

- 1. WB-Validated ASCC2 shRNA lentiviral particles (4 mL)
- 2. Non-Target shRNA lentiviral particles (4 mL)
- 3. Verification Tool: KD-Validated Anti-ASCC2 Mouse mAb #63525 (5 µL)

Tested Cell Line

HeLa

Validation Methods

RT-qPCR; Western Blotting (WB)

Shipping

Shipped with dry ice. Immediately store the product in a standard freezer at -80°C upon receipt.

Instructions For Use

The following protocol uses HeLa cell as an example assuming your cell culture medium is DMEM-based.

- 1.Release 0.5 million HeLa cells into a 35 mm tissue culture dish in 2 mL of the growth medium (DMEM containing 10% FBS and 1% pen/strep). Cell density should reach 50-60% confluence the following day.
- 2.24 h after cell release, pre-warm the shRNA lentiviral medium to 37°C.
- 3.Discard 1 mL of the original growth medium of the 35 mm dish.
- 4. Using a serological pipette, gently mix the lentiviral solution 3 times.
- 5. Carefully add 1 mL of the lentiviral solution to the well. Tip: To prevent splashing, add the

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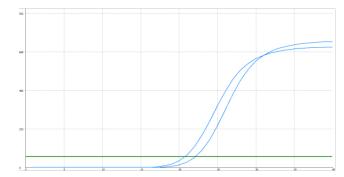
solution to the dish along the wall.

- 6.Add a polybrene stock solution to the culture medium at a final concentration of 5 μ g/mL. Gently swirl the dish to mix.
- 7.48 h after cell release, without discarding the original medium, add another 1 mL of lentiviral medium directly into the dish.
- 8.Add an additional polybrene stock solution into the dish to obtain a final concentration of 5 μ g/mL. Tip: Now, the medium in the dish should be a total of 3 mL.
- 9.72 h after cell release, cells may reach confluence. Trypsinize the cells off the 35 mm dish and culture those cells in a 60 mm dish.
- 10.Add puromycin to the dish at a final concentration of 4 μ g/mL. Tip: To assess the efficacy of puromycin selection, culture a dish of wild-type HeLa cells as a negative control.
- 11.Allow puromycin selection for 48 h. Almost all wild-type HeLa cells should die, while the dish infected with lentiviruses should have some remaining cells.
- 12.Replace the medium with regular growth medium without puromycin and allow the cells to grow to confluence before harvesting or staining.

Note: 1. This product is for research use only.

- 2. This product is only supplied to end users.
- 3. Do not use this product for commercial.

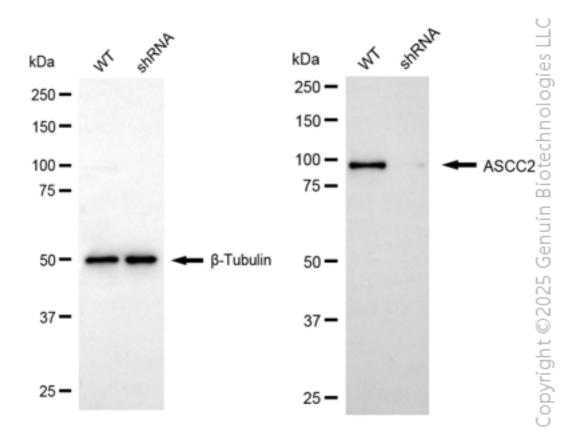
Validation Data



Genotype	Ct Value	J
Wild-Type	20.34	ennologie.
Knock-Down	21.80	nuin Biote
ΔCt (CtKD-CtWT)	1.46	02025 Gel
% mRNA		opyrignt
Reduction	64%	9

RT-qPCR analysis. HeLa cells were infected with ASCC2-specific shRNA lentiviral particles, total RNA was extracted from wild-type and knockdown cells, RT-qPCR was performed using gene-specific primers. Δ Ct (CtKD-CtWT) was used to calculate mRNA reduction (%) between wild-type and knockdown cells using the following formula: $(1-1/2\Delta$ Ct) x 100%.

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Western blotting analysis. ASCC2 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 ASCC2 and β -Tubulin, respectively, followed by incubating with HRP-conjugated goat anti-mouse secondary antibody. Images were developed using FeQTM ECL Substrate Kit.