

WB-Validated UCHL1 Lentiviral shRNA Knockdown Kit



Catalog #: V61191

Aliases

UCHL1; Ubiquitin C-Terminal Hydrolase L1; PGP9.5; UCHL-1; Ubiquitin Carboxyl-Terminal Esterase L1 (Ubiquitin Thiolesterase); Ubiquitin Carboxyl-Terminal Hydrolase Isozyme L1; Neuron Cytoplasmic Protein 9.5; Ubiquitin Thioesterase L1; Ubiquitin Thiolesterase; PGP 9.5; Uch-L1; UCH-L1; PARK5; Epididymis Secretory Protein Li 53; Epididymis Luminal Protein 117; EC 3.4.19.12; HEL-S-53; HEL-117; SPG79A; NDGOA; PGP95; SPG79

Background

Gene Name: UCHL1
NCBI Gene Entry: [7345](#)

Storage

Store at -80 °C for one year.

Kit Components

1. WB-Validated UCHL1 shRNA lentiviral particles (4 mL)
2. Non-Target shRNA lentiviral particles (4 mL)
3. Verification Tool: KD-Validated Anti-UCHL1 Rabbit mAb #61191 (5 µL)

Tested Cell Line

HAP1

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 HAP1 cell as an example assuming your cell culture medium is DMEM-based.

1. Release 0.5 million HAP1 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.

SUPPORT

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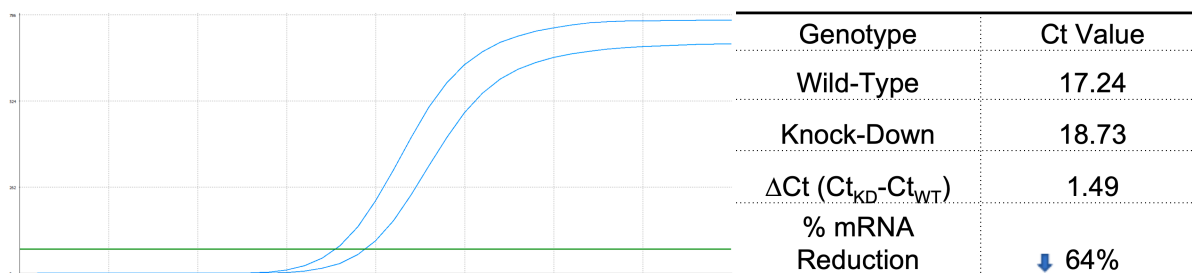
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4. Using a serological pipette, gently mix the lentiviral solution 3 times.
 5. Carefully add 1 mL of the lentiviral solution to the well. Tip: To prevent splashing, add the solution to the dish along the wall.
 6. Add a polybrene stock solution to the culture medium at a final concentration of 5 µg/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 µg/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 µg/mL. Tip: To assess the efficacy of puromycin selection, culture a dish of wild-type HAP1 cells as a negative control.
 11. Allow puromycin selection for 48 h. Almost all wild-type HAP1 cells should die, while the dish infected with lentiviruses should have some remaining cells.
- 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



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RT-qPCR analysis. HAP1 cells were infected with UCHL1-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: $(1 - 1/2^{\Delta Ct}) \times 100\%$.

