Human ATP1B3 Knockdown Cell Line (WB-Validated)

Catalog #: C61713

Aliases

ATP1B3; ATPase Na+/K+ Transporting Subunit Beta 3; Sodium/Potassium-Transporting ATPase Subunit Beta-3; CD298; Sodium-Potassium ATPase Subunit Beta 3 (Non-Catalytic); Sodium/Potassium-Dependent ATPase Subunit Beta-3; ATPase, Na+/K+ Transporting, Beta 3 Polypeptide; Sodium Pump Subunit Beta-3; FLJ29027; ATPB-3; Sodium/Potassium-Transporting ATPase Beta-3 Chain; Na, K-ATPase Beta-3 Polypeptide; CD298 Antigen

Background

Gene Name: ATP1B3
NCBI Gene Entry: 483

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human ATP1B3 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.

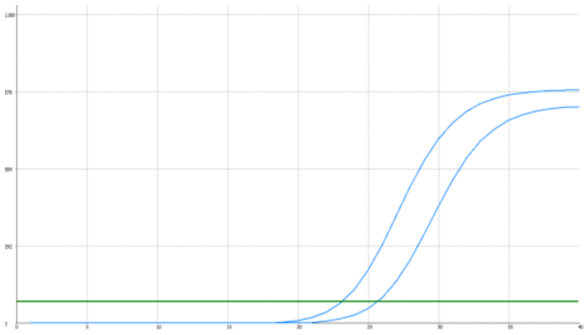
Instructions For Use

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

Note: This product is for research use only.

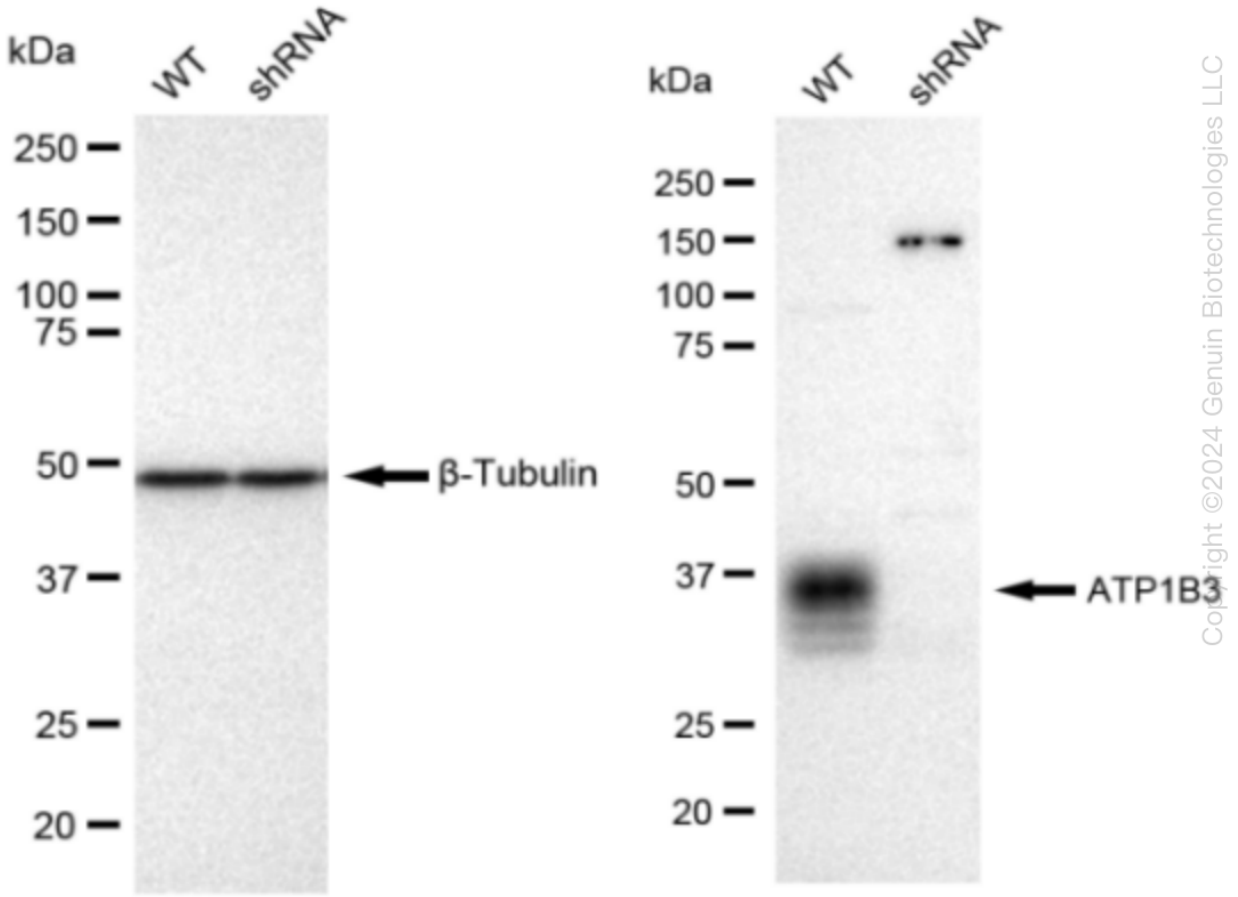
Validation Data

Human ATP1B3 Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	22.67
Knock-Down	25.07
ΔCt (Ct_{KD}-Ct_{WT})	2.4
% mRNA Reduction	⬇ 81%

RT-qPCR analysis. HeLa cells were infected with ATP1B3-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. ATP1B3 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#61848, 1:5,000) against ATP1B3 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).