Human USO1 Knockdown Cell Line (WB-Validated)

Catalog #: C62803

Aliases

USO1; USO1 Vesicle Transport Factor; TAP; VDP; P115; General Vesicular Transport Factor P115; Transcytosis Associated Protein; USO1 Homolog, Vesicle Docking Protein (Yeast); USO1 Vesicle Docking Protein Homolog (Yeast); USO1 Vesicle Docking Protein Homolog; Transcytosis-Associated Protein; Vesicle Docking Protein P115; Vesicle Docking Protein; Vesicle-Docking Protein; Protein USO1 Homolog

Background

Gene Name: USO1
NCBI Gene Entry: 8615

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human USO1 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.

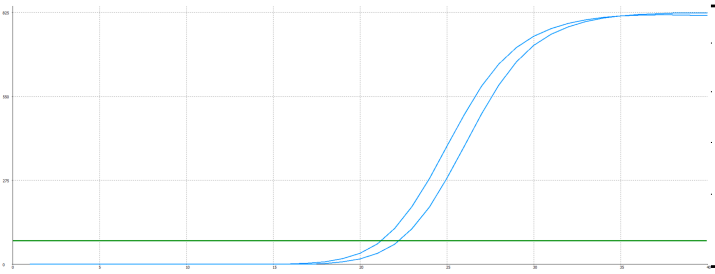
Instructions For Use

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

Note: This product is for research use only.

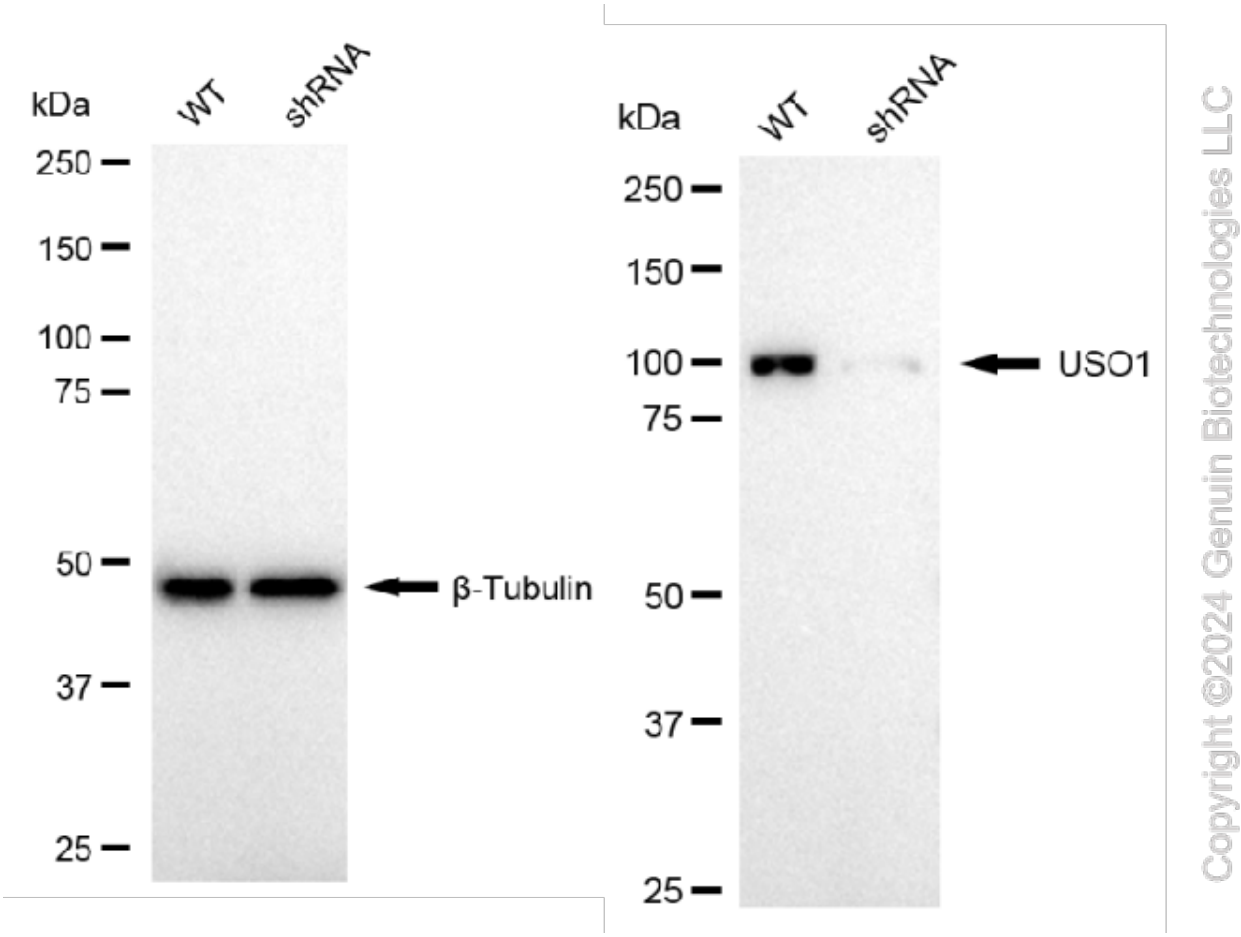
Validation Data

Human USO1 Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	20.70
Knock-Down	21.75
ΔCt (Ct_{KD}-Ct_{WT})	1.05
% mRNA Reduction	⬇ 52%

RT-qPCR analysis. HeLa cells were infected with USO1-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. USO1 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 USO1 and β-Tubulin, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.