Human MMP14 Knockdown Cell Line (WB-Validated)

Catalog #: C61492

Aliases

MMP14; Matrix Metallopeptidase 14; MT1-MMP; Matrix Metallopeptidase 14 (Membrane-Inserted); Membrane-Type-1 Matrix Metalloproteinase; Membrane Type 1 Metalloprotease; Matrix Metalloproteinase-14; EC 3.4.24.80; MT-MMP 1; MMP-14; MMP-X1; MT1MMP; MTMMP1; Matrix Metalloproteinase 14 (Membrane-Inserted); Membrane Type 1-Matrix Metalloproteinase; Membrane-Type Matrix Metalloproteinase 1; EC 3.4.24; MT-MMP; WNCHRS

Background

Gene Name: MMP14
NCBI Gene Entry: 4323

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human MMP14 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.

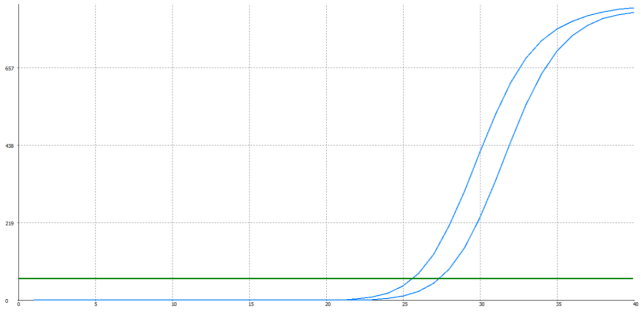
Instructions For Use

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 MMP14 Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	25.52
Knock-Down	27.25
ΔCt (Ct_{KD}-Ct_{WT})	1.73
% mRNA Reduction	⇩ 70%

RT-qPCR analysis. HeLa cells were infected with MMP14-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%.

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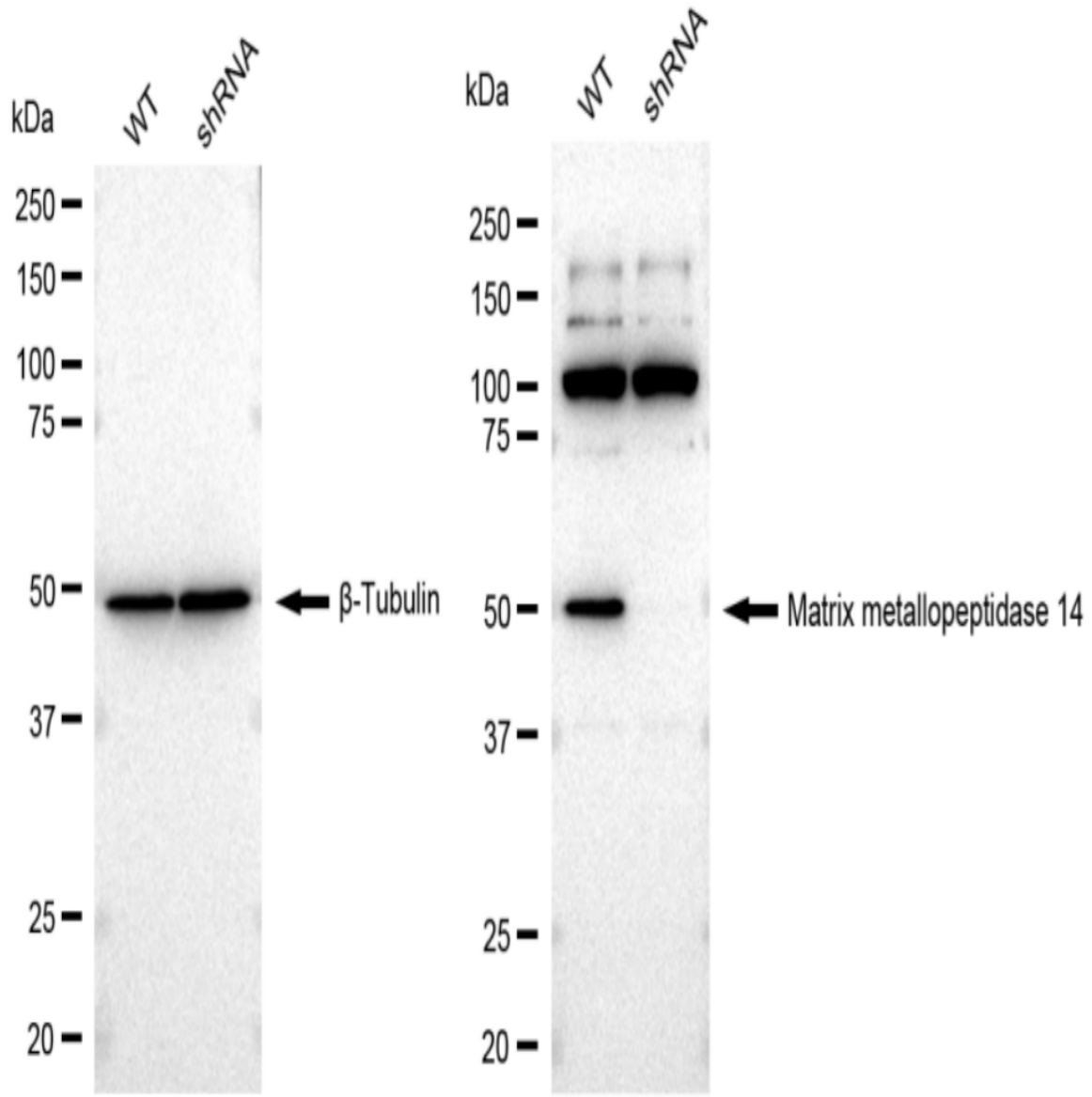

Western blotting analysis. MMP14 protein expression in wild-type (WT) and shRNA knockdown (KD) HeLa cells was detected using Western blotting. β-Tubulin served as a loading control. The blots were incubated with primary antibodies (Cat#61492, 1:5,000) against MMP14 and β-Tubulin , respectively, followed 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).