Human MAP1LC3A Knockdown Cell Line (WB-Validated)

Catalog #: C61125

Aliases

MAP1LC3A; Microtubule Associated Protein 1 Light Chain 3 Alpha; MAP1BLC3; MAP1ALC3; ATG8E; LC3A; LC3; Microtubule-Associated Proteins 1A/1B Light Chain 3A; Autophagy-Related Ubiquitin-Like Modifier LC3 A; MAP1 Light Chain 3-Like Protein 1; MAP1A/MAP1B Light Chain 3 A; MAP1A/MAP1B LC3 A; Microtubule-Associated Protein 1 Light Chain 3 Alpha; Microtubule-Associated Proteins 1A/1B Light Chain 3; Autophagy-Related Protein LC3 A; MAP1A/1B Light Chain 3 A

Background

Gene Name: MAP1LC3A
NCBI Gene Entry: 84557

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human MAP1LC3A 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.

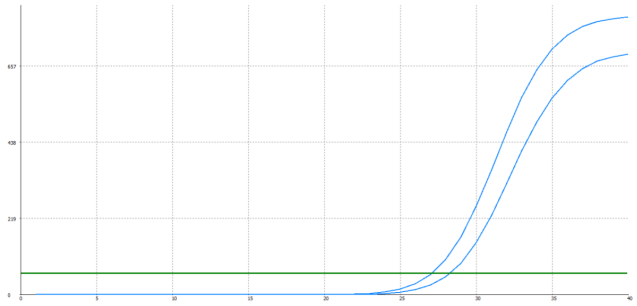
Instructions For Use

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

Note: This product is for research use only.

Validation Data

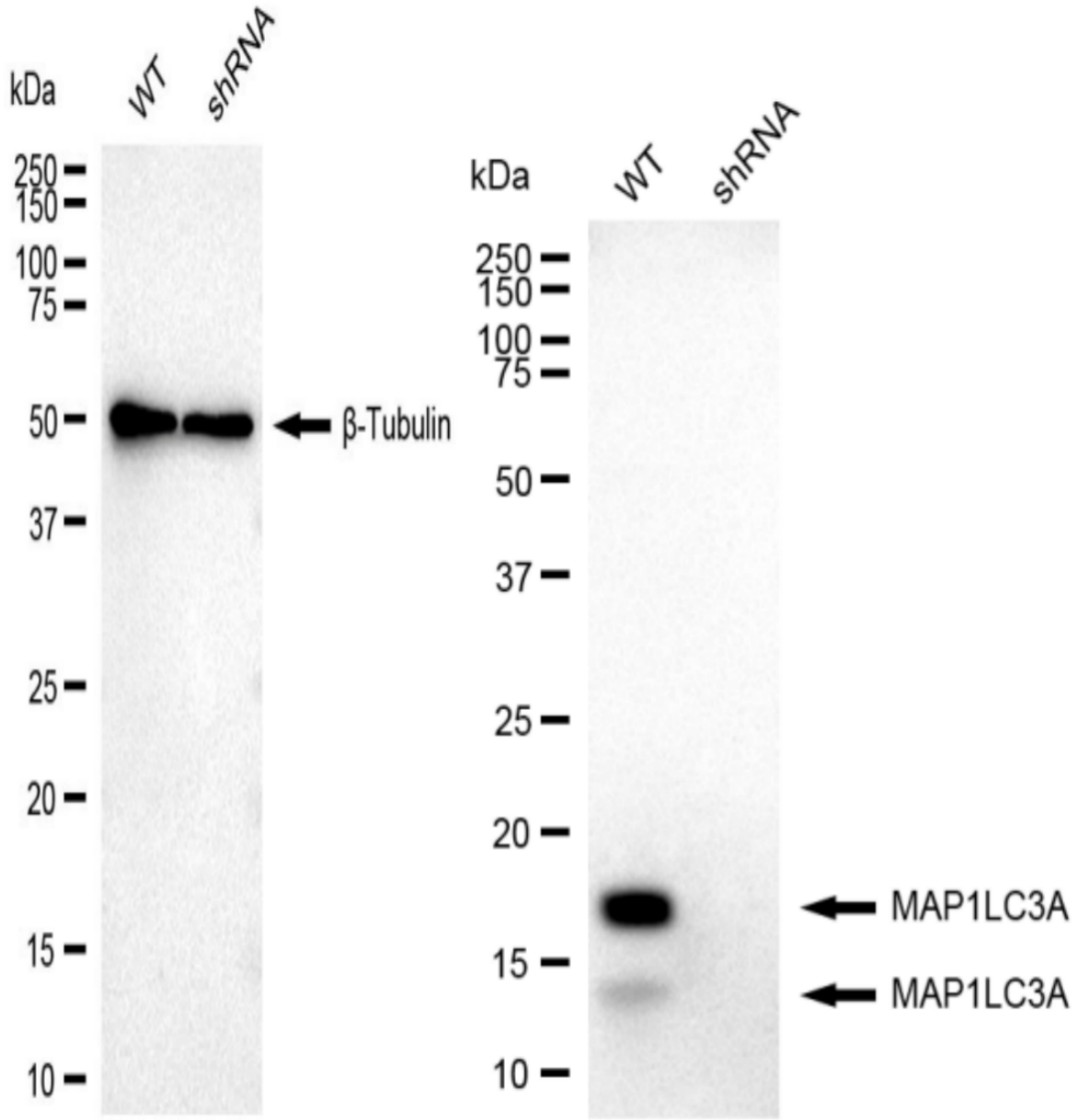
Human MAP1LC3A Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	26.96
Knock-Down	27.89
ΔCt (Ct_{KD}-Ct_{WT})	0.93
% mRNA Reduction	⬇ 48%

RT-qPCR analysis. HeLa cells were infected with MAP1LC3A-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%.

Human MAP1LC3A Knockdown Cell Line (WB-Validated)



Western blotting analysis. MAP1LC3A 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#61125, 1:20,000) against MAP1LC3A 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).