Human KATNA1 Knockdown Cell Line (WB-Validated)

Catalog #: C61856

Aliases

KATNA1; Katanin Catalytic Subunit A1; Katanin P60 (ATPase Containing) Subunit A 1; Katanin P60 ATPase-Containing Subunit A1; Katanin P60 Subunit A1; P60 Katanin; Katanin P60 (ATPase-Containing) Subunit A 1; EC 5.6.1.1; EC 3.6.4.3

Background

Gene Name: KATNA1
NCBI Gene Entry: 11104

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human KATNA1 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.

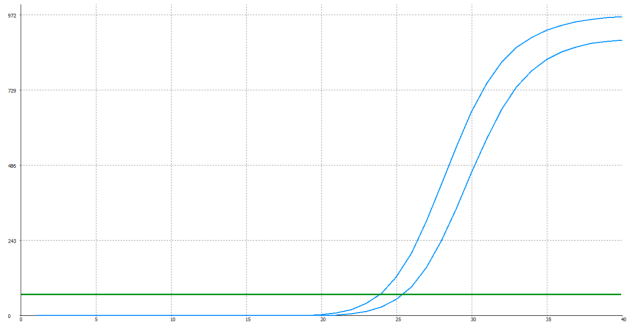
Instructions For Use

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

Note: This product is for research use only.

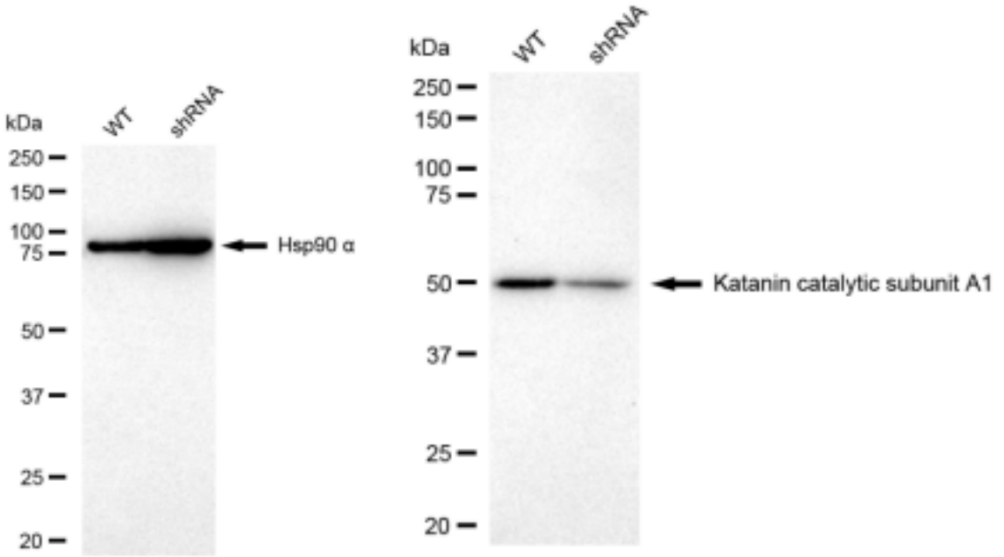
Validation Data

Human KATNA1 Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	23.90
Knock-Down	25.26
ΔCt (Ct_{KD}-Ct_{WT})	1.36
% mRNA Reduction	⬇ 61%

RT-qPCR analysis. HeLa cells were infected with KATNA1-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. KATNA1 protein expression in wild-type (WT) and shRNA knockdown (KD) HeLa cells was detected using Western blotting. Hsp90 α served as a loading control. The blots were incubated with primary antibodies against KATNA1 and Hsp90 α, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.