Human ALPL Knockdown Cell Line (WB-Validated)

Catalog #: C63486

Aliases

Alkaline Phosphatase, Biomineralization Associated; TNSALP; TNALP; TNAP; Alkaline Phosphatase, Tissue-Nonspecific Isozyme; Alkaline Phosphatase Liver/Bone/Kidney Isozyme; Tissue Non-Specific Alkaline Phosphatase; Alkaline Phosphatase, Liver/Bone/Kidney; Phosphocreatine Phosphatase; Phosphoamidase; EC 3.1.3.1; AP-TNAP; TNS-ALP; HOPS; Liver/Bone/Kidney-Type Alkaline Phosphatase; Tissue-Nonspecific ALP; EC 3.9.1.1; APTNAP; HPPA; HPPC; HPPI; HPPO

Background

Gene Name: ALPL
NCBI Gene Entry: 249

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human ALPL 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.

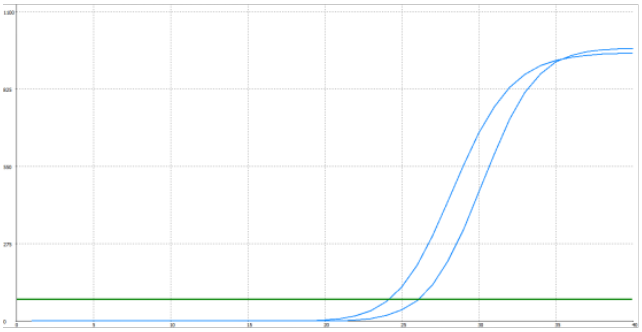
Instructions For Use

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

Note: This product is for research use only.

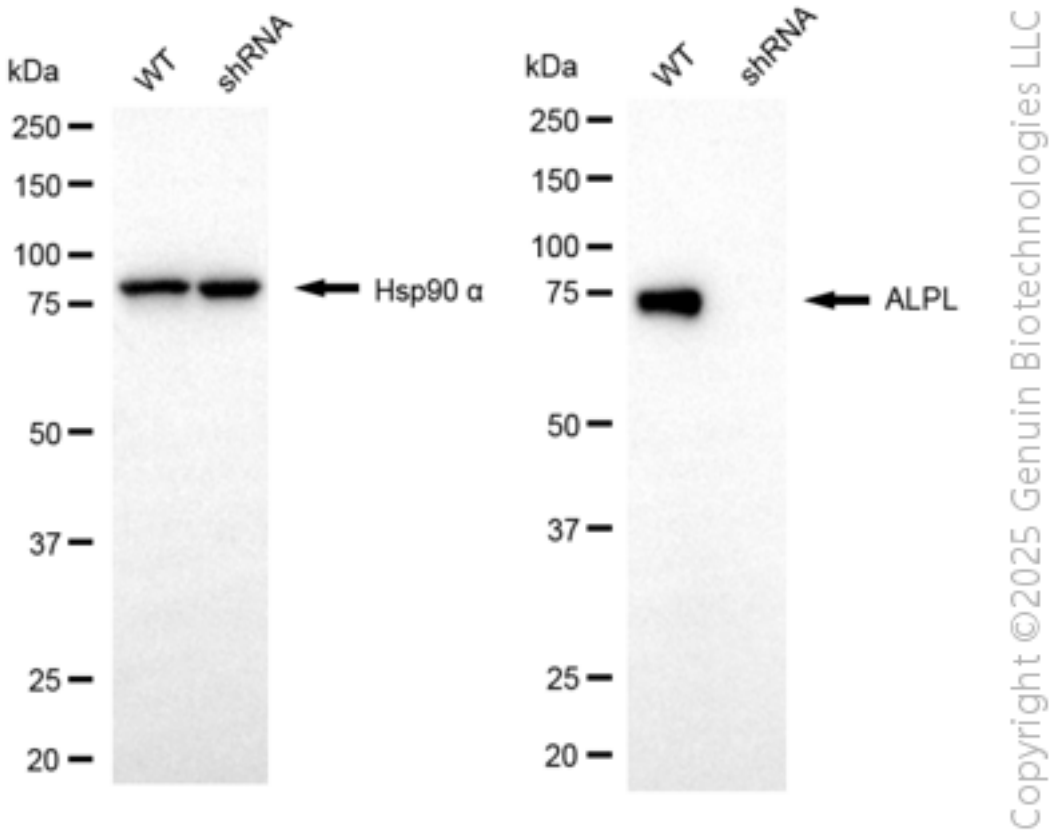
Validation Data

Human ALPL Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	23.96
Knock-Down	25.88
ΔCt (CtKD-CtWT)	1.92
% mRNA Reduction	74%

RT-qPCR analysis. HeLa cells were infected with ALPL-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. ALPL 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 ALPL and Hsp90 α, respectively, followed by incubating with HRP-conjugated goat anti-mouse secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.