Human FNTA Knockdown Cell Line (WB-Validated)

Catalog #: C65573

Aliases

FNTA; Farnesyltransferase, CAAX Box, Subunit Alpha; Protein Farnesyltransferase/ Geranylgeranyltransferase Type-1 Subunit Alpha; PGGT1A; PTAR2; FPTA; Protein Prenyltransferase Alpha Subunit Repeat Containing 2; Ras Proteins Prenyltransferase Subunit Alpha; Farnesyltransferase, CAAX Box, Alpha; GGTase-I-Alpha; FTase-Alpha; Type I Protein Geranyl-Geranyltransferase Alpha Subunit; Type I Protein Geranyl-Geranyltransferase Subunit Alpha; Farnesyl-Protein Transferase Alpha-Subunit; CAAX Farnesyltransferase Subunit Alpha; EC 2.5.1.58; EC 2.5.1.59

Background

Gene Name: FNTA
NCBI Gene Entry: 2339

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human FNTA 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.

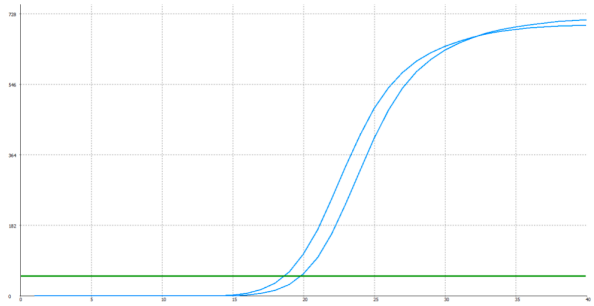
Instructions For Use

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

Note: This product is for research use only.

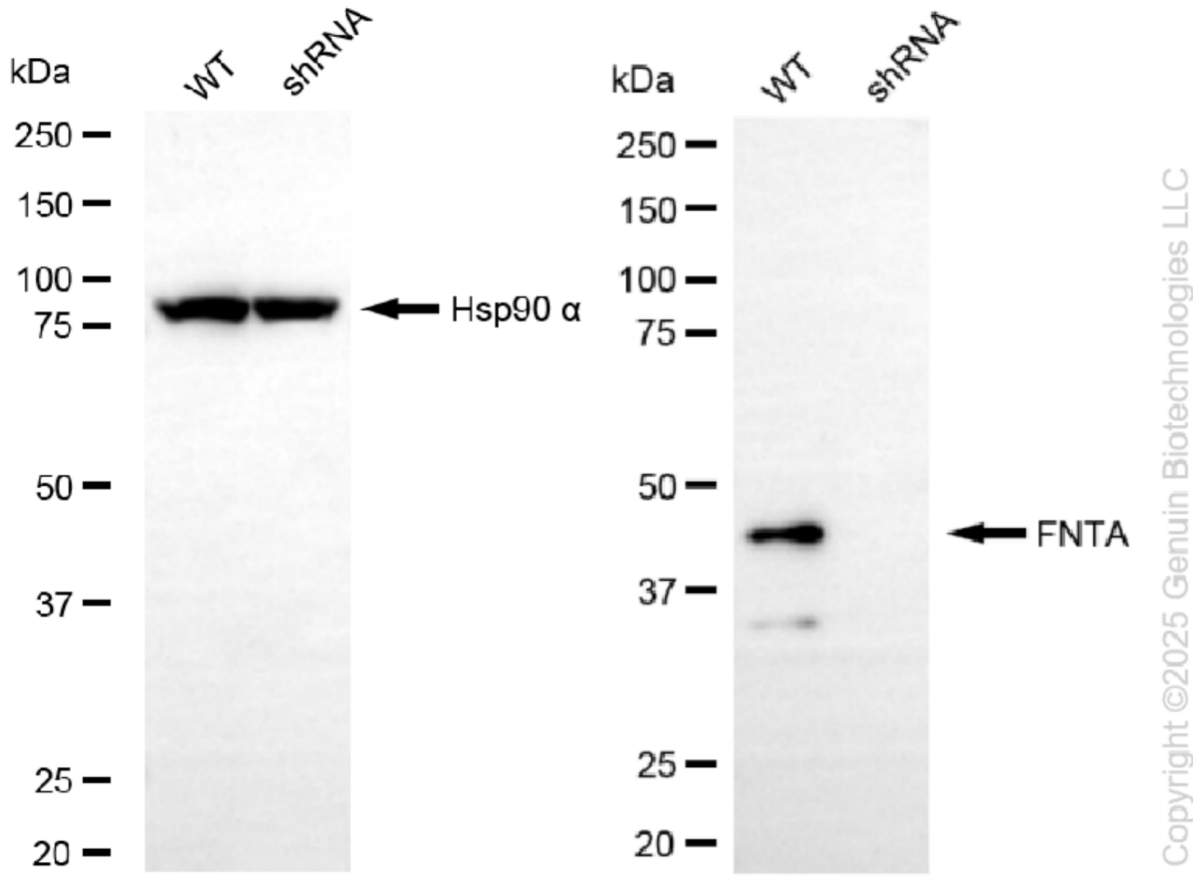
Validation Data

Human FNTA Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	18.57
Knock-Down	19.77
ΔCt (Ct_{KD}-Ct_{WT})	1.20
% mRNA Reduction	⬇ 56%

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