Human STAT1 Knockdown Cell Line (WB-Validated)

Catalog #: C61710

Aliases

STAT1; Signal Transducer And Activator Of Transcription 1; Transcription Factor ISGF-3 Components P91/P84; STAT91; ISGF-3; Signal Transducer And Activator Of Transcription 1-Alpha/Beta; Signal Transducer And Activator Of Transcription 1, 91kDa; Signal Transducer And Activator Of Transcription 1, 91kD; CANDF7; IMD31A; IMD31B; IMD31C

Background

Gene Name: STAT1
NCBI Gene Entry: 6772

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human STAT1 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.

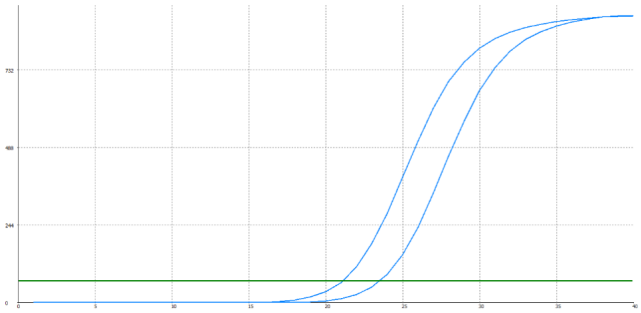
Instructions For Use

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

Note: This product is for research use only.

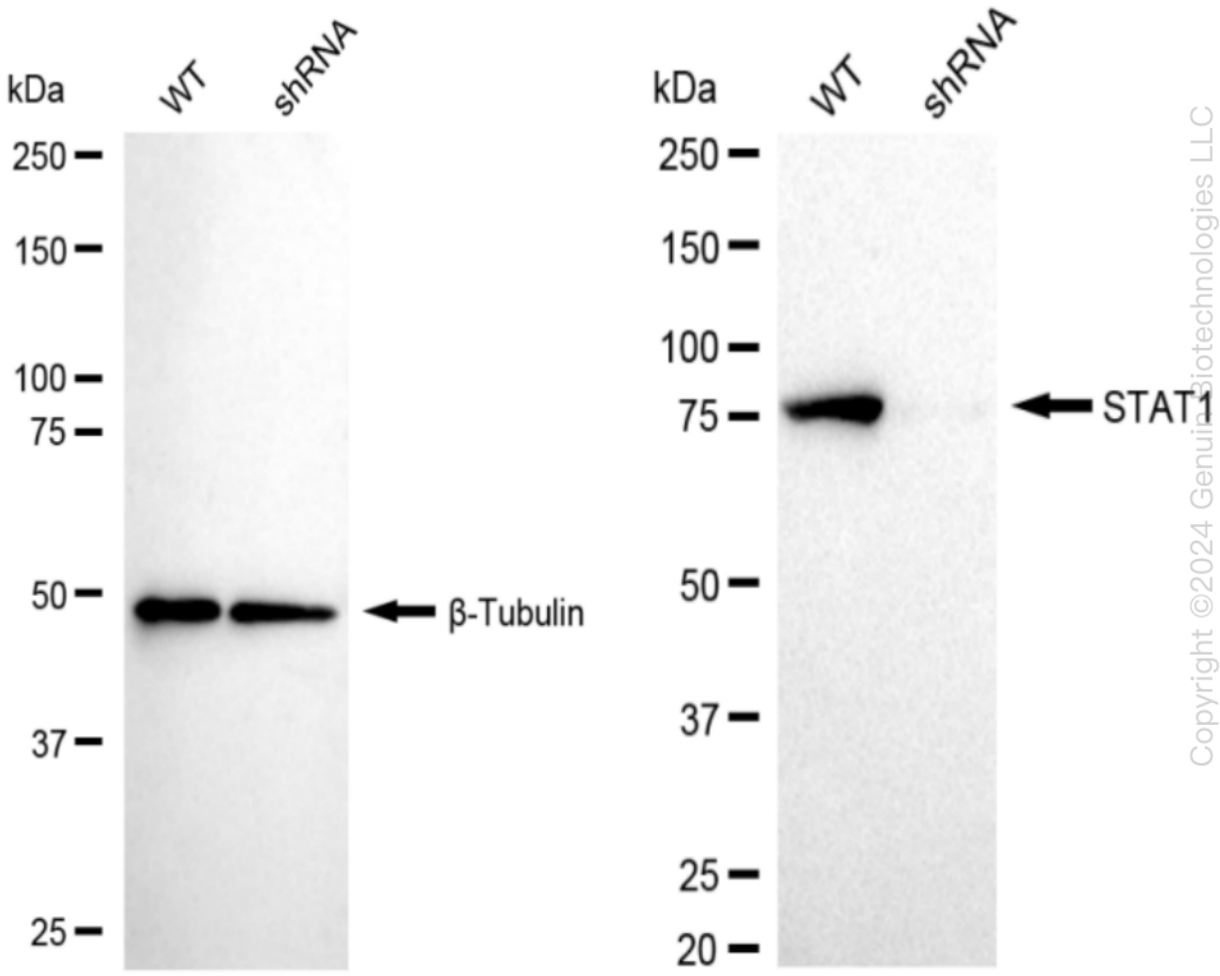
Validation Data

Human STAT1 Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	21.01
Knock-Down	23.4
ΔCt (Ct_{KD}-Ct_{WT})	2.39
% mRNA Reduction	⬇ 81%

RT-qPCR analysis. HeLa cells were infected with STAT1-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. STAT1 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#61710, 1:5,000) against STAT1 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).