Human CYFIP1 Knockdown Cell Line (WB-Validated)

Catalog #: C1921

Aliases

CYFIP1; Cytoplasmic FMR1 Interacting Protein 1; P140SRA-1; KIAA; Cytoplasmic FMRP Interacting Protein 1; Cytoplasmic FMR1-Interacting Protein 1; Specifically Rac1-Associated Protein 1; Selective Hybridizing Clone; P140sra-1; SRA-1; Sra-1; SRA1

Background

Gene Name: CYFIP1
NCBI Gene Entry: 23191

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human CYFIP1 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.

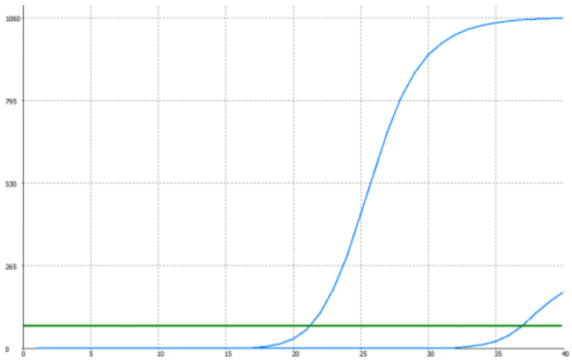
Instructions For Use

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 CYFIP1 Knockdown Cell Line (WB-Validated)

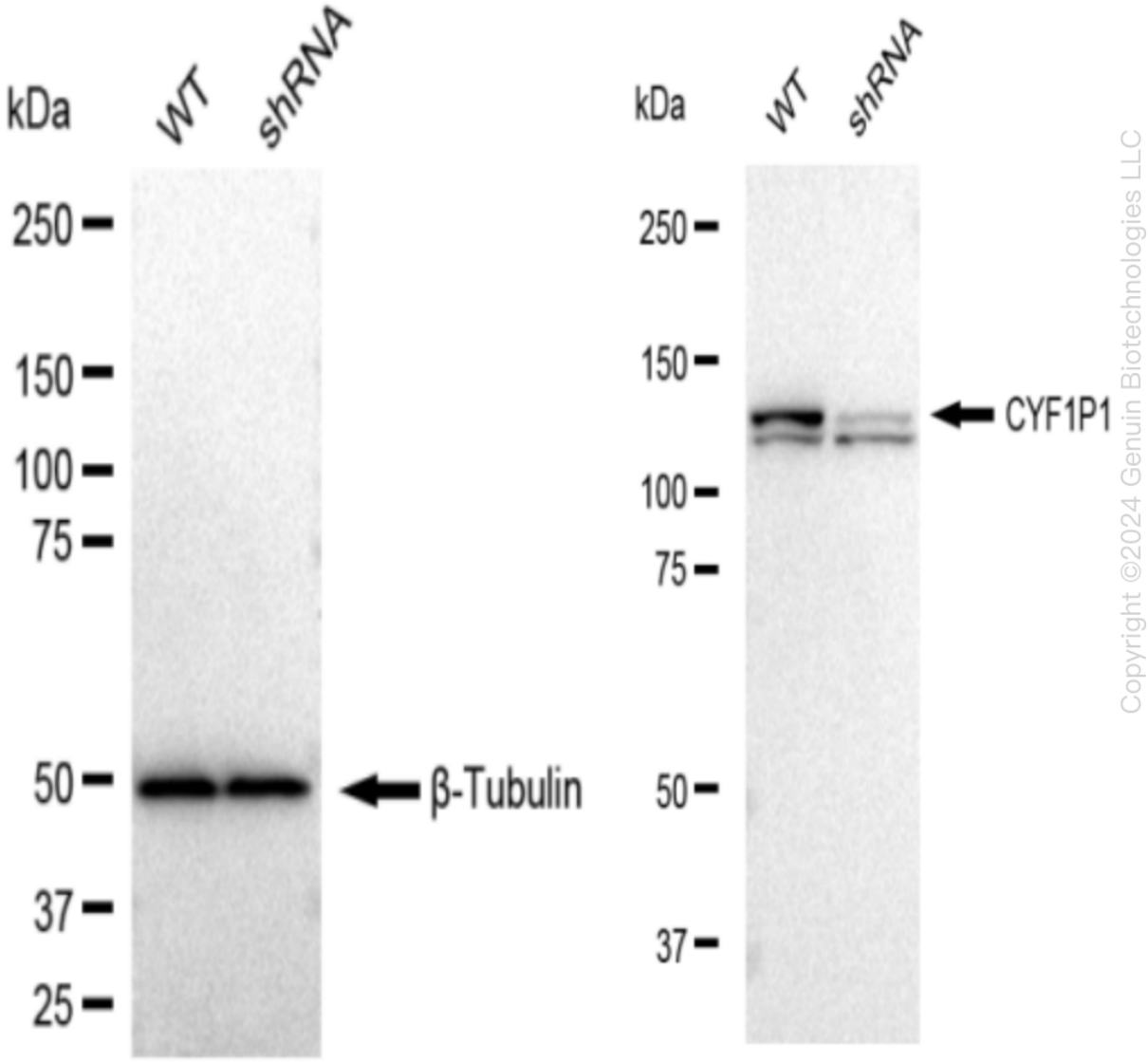


Genotype	Ct Value
Wild-Type	21.26
Knock-Down	34.00
ΔCt (Ct_{KD}-Ct_{WT})	12.74
% mRNA Reduction	⬇ 99.99%

Figure 1. RT-qPCR analysis. HeLa cells were infected with *CYFIP1*-specific shRNA lentiviral particles, total RNA was extracted from wild-type and knockdown cells, RT-qPCR was performed using gene-specific primers. ΔCt (Ct_{KD}-Ct_{WT}) was used to calculate mRNA reduction (%) between wild-type and knockdown cells using the following formula: $(1-1/2^{\Delta Ct}) \times 100\%$.

RT-qPCR analysis. HeLa cells were infected with CYFIP1-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 CYFIP1 Knockdown Cell Line (WB-Validated)



Western blotting analysis. CYFIP1 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#61923, 1:5,000) against CYFIP1 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).