

# Human ITPK1 Knockdown Cell Line (WB-Validated)



**Catalog #: C62099**

## Aliases

ITPK1; Inositol-Tetrakisphosphate 1-Kinase; Inositol 1,3,4-Trisphosphate 5/6-Kinase; Ins(1,3,4)P(3) 5/6-Kinase; Inositol 1,3,4-Triphosphate 5/6 Kinase; Inositol-Triphosphate 5/6-Kinase; EC 2.7.1.134; EC 2.7.1.159; ITRPK1

## Background

Gene Name: ITPK1

NCBI Gene Entry: [3705](#)

## Storage

Store at liquid nitrogen for 1 year.

## Kit Components

1. Human ITPK1 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

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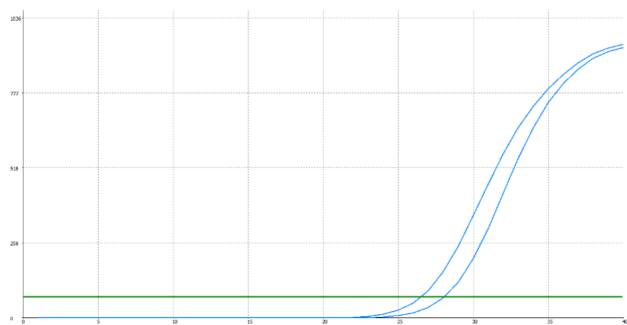
### SUPPORT

SUPPORT@GENUINBIOTECH.COM  
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### ORDERS

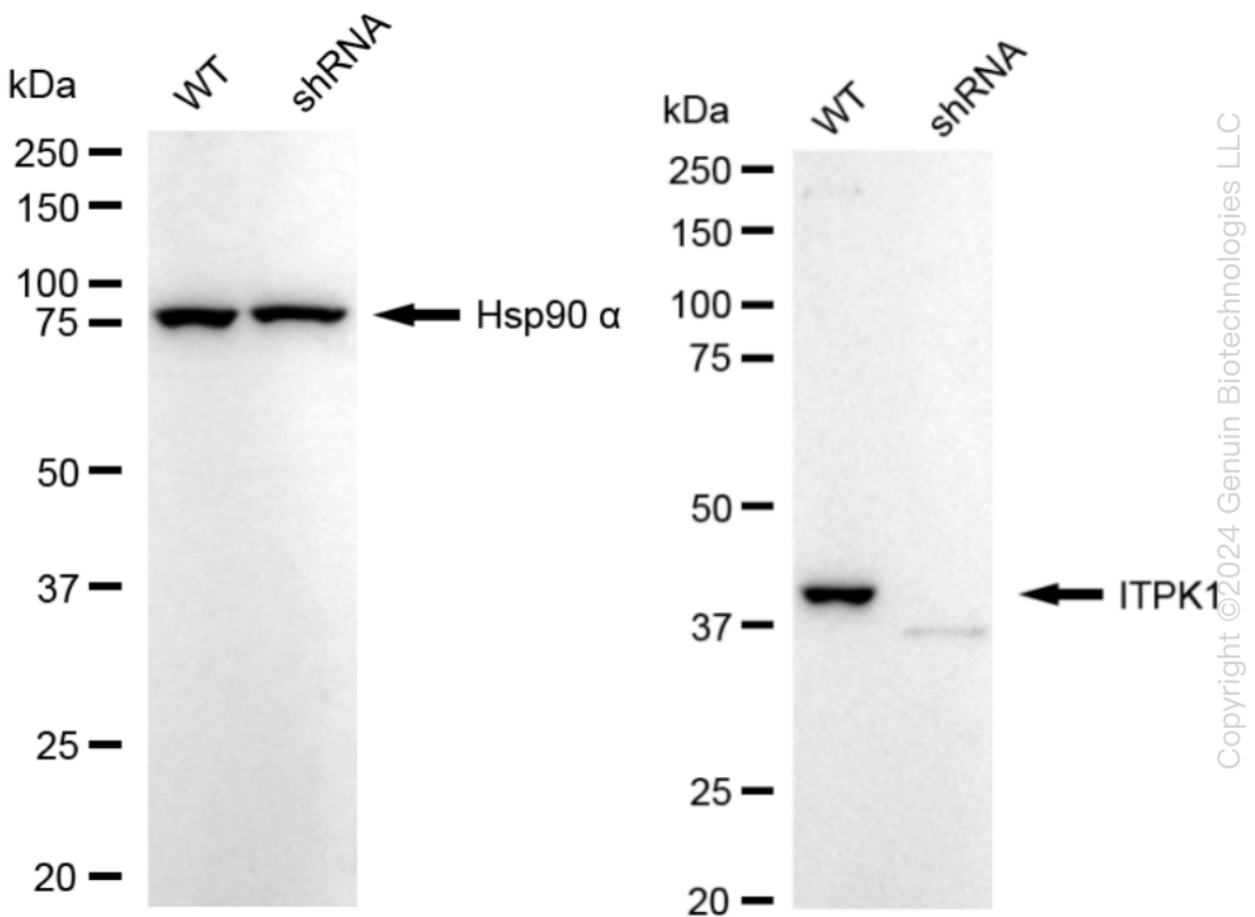
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Genotype	Ct Value
Wild-Type	26.37
Knock-Down	27.92
$\Delta Ct (Ct_{KD}-Ct_{WT})$	1.55
% mRNA Reduction	↓ 66%

RT-qPCR analysis. HeLa cells were infected with ITPK1-specific shRNA lentiviral particles, total RNA was extracted from wild-type and knockdown cells, RT-qPCR was performed using gene-specific primers.  $\Delta Ct (Ct_{KD}-Ct_{WT})$  was used to calculate mRNA reduction (%) between wild-type and knockdown cells using the following formula:  $(1-1/2^{\Delta Ct}) \times 100\%$ .



Western blotting analysis. ITPK1 protein expression in wild-type (WT) and shRNA knockdown (KD) HeLa cells was detected using Western blotting. Hsp90  $\alpha$  served as a loading control. The blots were incubated with primary antibodies (Cat#61160, 1:5,000) against ITPK1 and Hsp90  $\alpha$ , respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody

## **Human ITPK1 Knockdown Cell Line (WB-Validated)**

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(Cat#201, 1:20,000). Images were developed using FeQ™ ECL Substrate Kit (Cat#226).

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