Human CASP2 Knockdown Cell Line (WB-Validated)

Catalog #: C61766

Aliases

CASP2; Caspase 2; ICH1; PPP1R57; NEDD2; Neural Precursor Cell Expressed Developmentally Down-Regulated Protein 2; Protein Phosphatase 1, Regulatory Subunit 57; Protease ICH-1; EC 3.4.22.55; Caspase-2; MGC2181; CASP-2; NEDD-2; Neural Precursor Cell Expressed, Developmentally Down-Regulated 2; Caspase 2, Apoptosis-Related Cysteine Peptidase; Caspase 2 Apoptosis-Related Cysteine Peptidase; MRT80

Background

Gene Name: CASP2
NCBI Gene Entry: 835

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human CASP2 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.

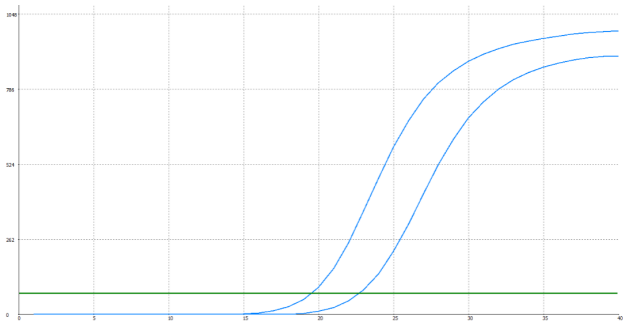
Instructions For Use

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

Note: This product is for research use only.

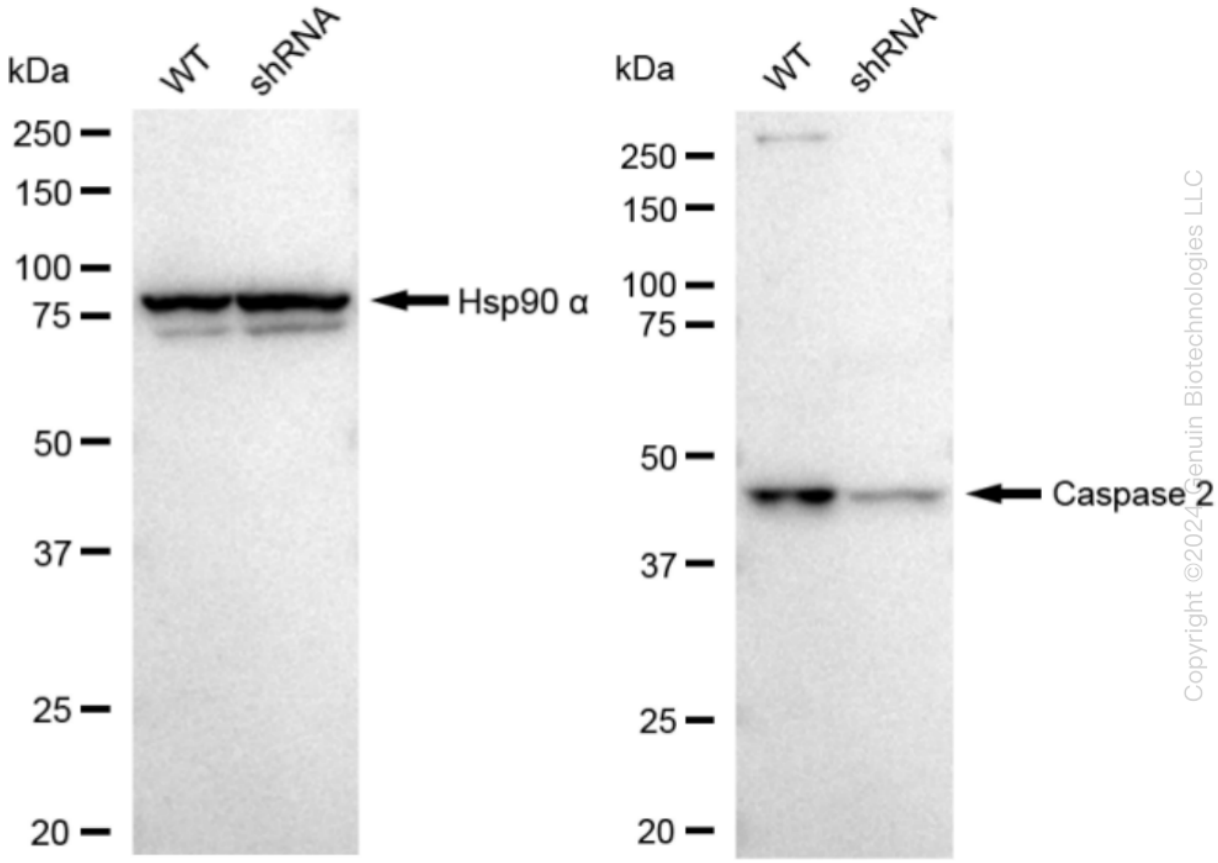
Validation Data

Human CASP2 Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	19.43
Knock-Down	22.45
ΔCt (Ct_{KD}-Ct_{WT})	3.02
% mRNA Reduction	⬇ 88%

RT-qPCR analysis. HeLa cells were infected with CASP2-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. CASP2 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 CASP2 and Hsp90 α, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.