Human CASP8 Knockdown Cell Line (WB-Validated)

Catalog #: C1178

Aliases

CASP8; Caspase 8; FLICE; MCH5; MACH; Casp-8; Caspase 8, Apoptosis-Related Cysteine Peptidase; Caspase 8, Apoptosis-Related Cysteine Protease; MORT1-Associated Ced-3 Homolog; ICE-Like Apoptotic Protease 5; Apoptotic Cysteine Protease; Apoptotic Protease Mch-5; FADD-Like ICE; Caspase-8; CAP4; FADD-Homologous ICE/CED-3-Like Protease; FADD-Homologous ICE/Ced-3-Like Protease; MACH-Beta-1/2/3/4 Protein; MACH-Alpha-1/2/3 Protein; EC 3.4.22.61; ALPS2B; CASP-8

Background

Gene Name: CASP8
NCBI Gene Entry: 841

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human CASP8 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.

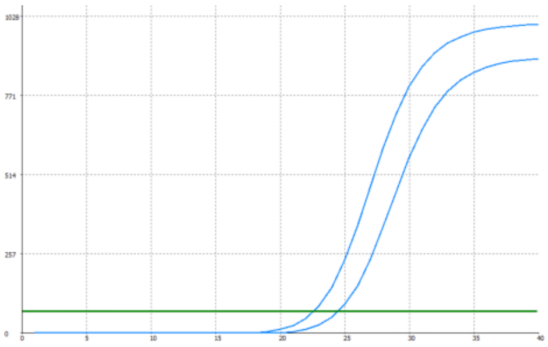
Instructions For Use

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

Note: This product is for research use only.

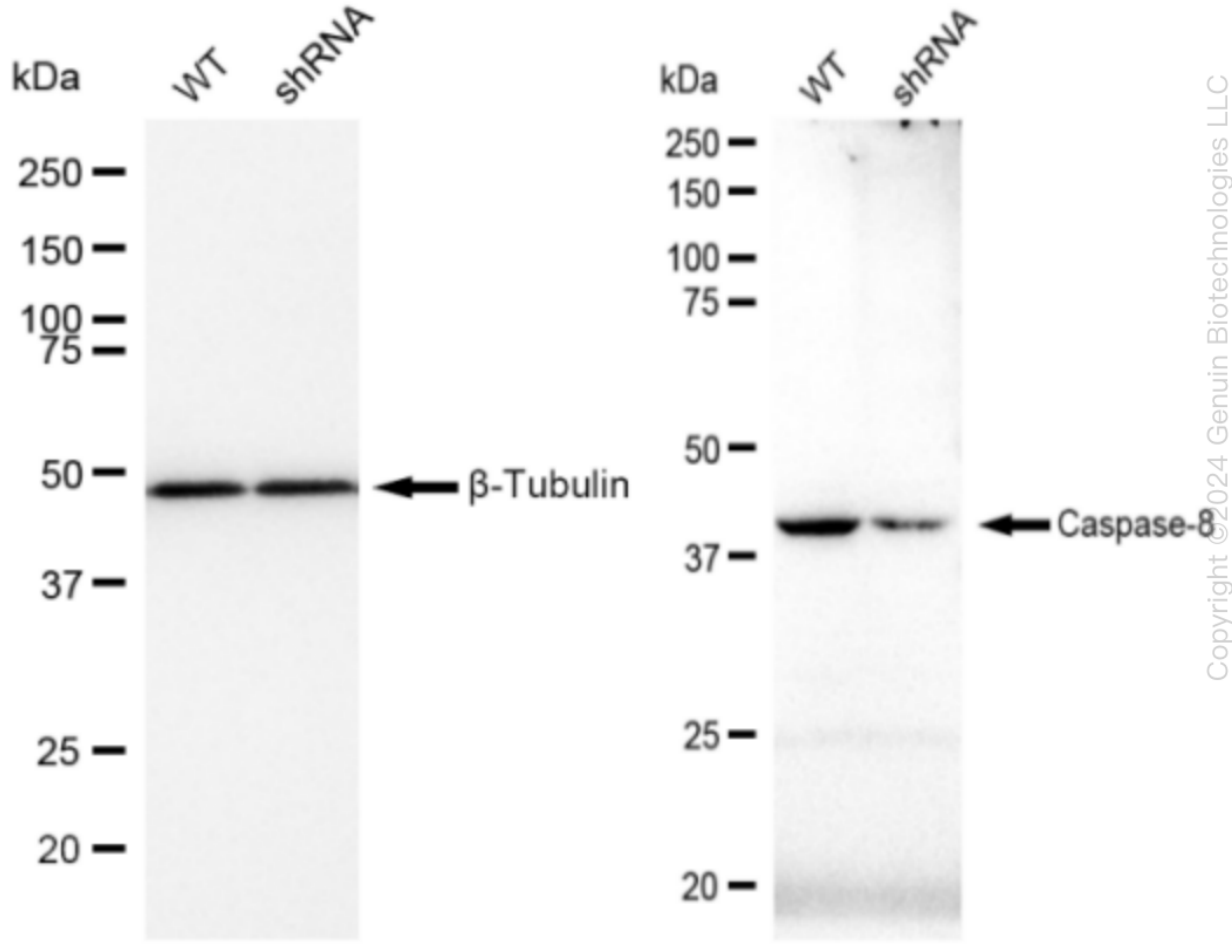
Validation Data

Human CASP8 Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	22.61
Knock-Down	24.30
ΔCt (Ct_{KD}-Ct_{WT})	1.69
% mRNA Reduction	⬇ 69%

RT-qPCR analysis. HeLa cells were infected with CASP8-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. CASP8 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 (Cat#69176, 1:5,000) against CASP8 and Hsp90 α, 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).