Human CD46 Knockdown Cell Line (WB-Validated)

Catalog #: C63044

Aliases

CD46; CD46 Molecule; TLX; TRA2.10; MIC10; MCP; Membrane Cofactor Protein (CD46, Trophoblast-Lymphocyte Cross-Reactive Antigen); Antigen Identified By Monoclonal Antibody TRA-2-10; Trophoblast-Lymphocyte Cross-Reactive Antigen; CD46 Molecule, Complement Regulatory Protein; CD46 Antigen, Complement Regulatory Protein; Trophoblast Leukocyte Common Antigen; Membrane Cofactor Protein; MGC26544; Complement Membrane Cofactor Protein; Trophoblast Leucocyte Common Antigen; Measles Virus Receptor; CD46 Antigen; AHUS2

Background

Gene Name: CD46
NCBI Gene Entry: 4179

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human CD46 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.

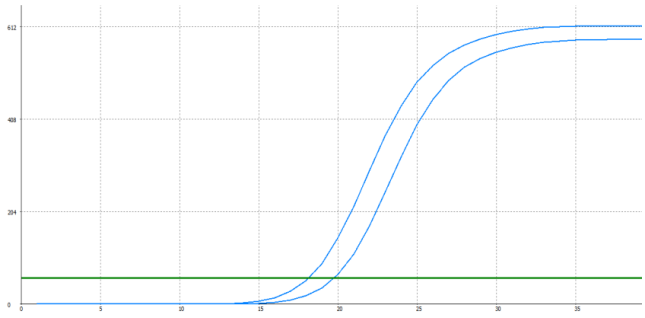
Instructions For Use

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

Note: This product is for research use only.

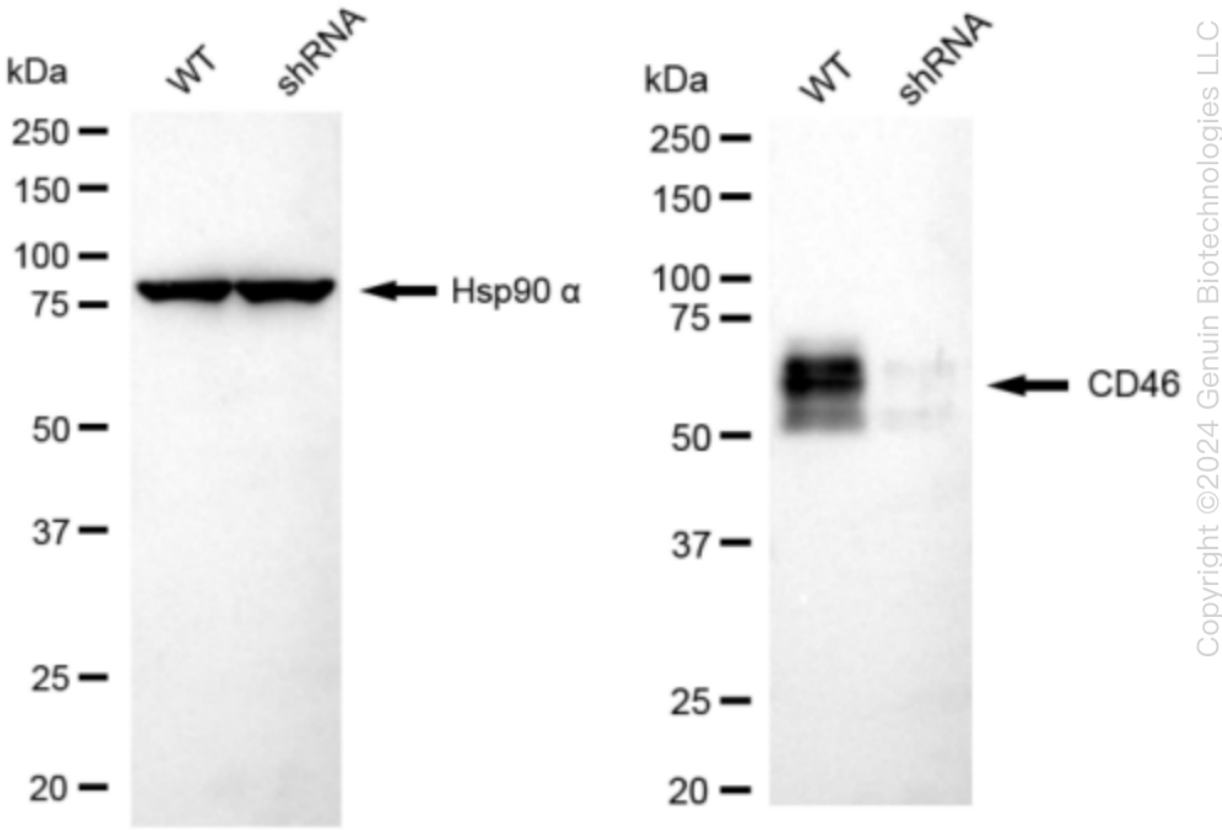
Validation Data

Human CD46 Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	17.66
Knock-Down	19.21
ΔCt (Ct_{KD}-Ct_{WT})	1.55
% mRNA Reduction	⬇ 66%

RT-qPCR analysis. HT-1080 cells were infected with CD46-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. CD46 protein expression in wild-type (WT) and shRNA knockdown (KD) HT1080 cells was detected using Western blotting. Hsp90 α served as a loading control. The blots were incubated with primary antibodies (Cat#63044, 1:5,000) against CD46 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).