Human CD163 Knockdown Cell Line (WB-Validated)

Catalog #: C68431

Aliases

CD163; CD163 Molecule; M130; SCARI1; MM130; Scavenger Receptor Cysteine-Rich Type 1 Protein M130; Hemoglobin Scavenger Receptor; CD163 Antigen; Macrophage-Associated Antigen

Background

Gene Name: CD163
NCBI Gene Entry: 9332

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human CD163 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.

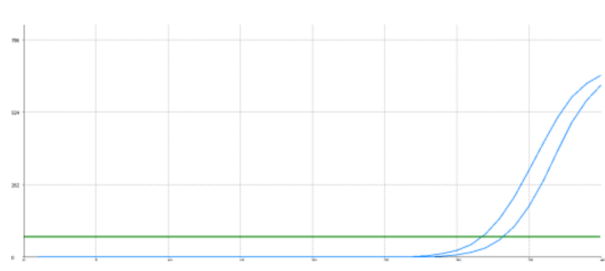**Note:** This product is for research use only.

Validation Data

Human CD163 Knockdown Cell Line (WB-Validated)

Genotype	Ct Value
Wild-Type	31.01
Knock-Down	32.35
ΔCt (Ct$_{KD}$-Ct$_{WT}$)	1.34
% mRNA Reduction	⬇ 60%

RT-qPCR analysis. HeLa cells were infected with CD163-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: $(1-1/2\Delta Ct) \times 100\%$.
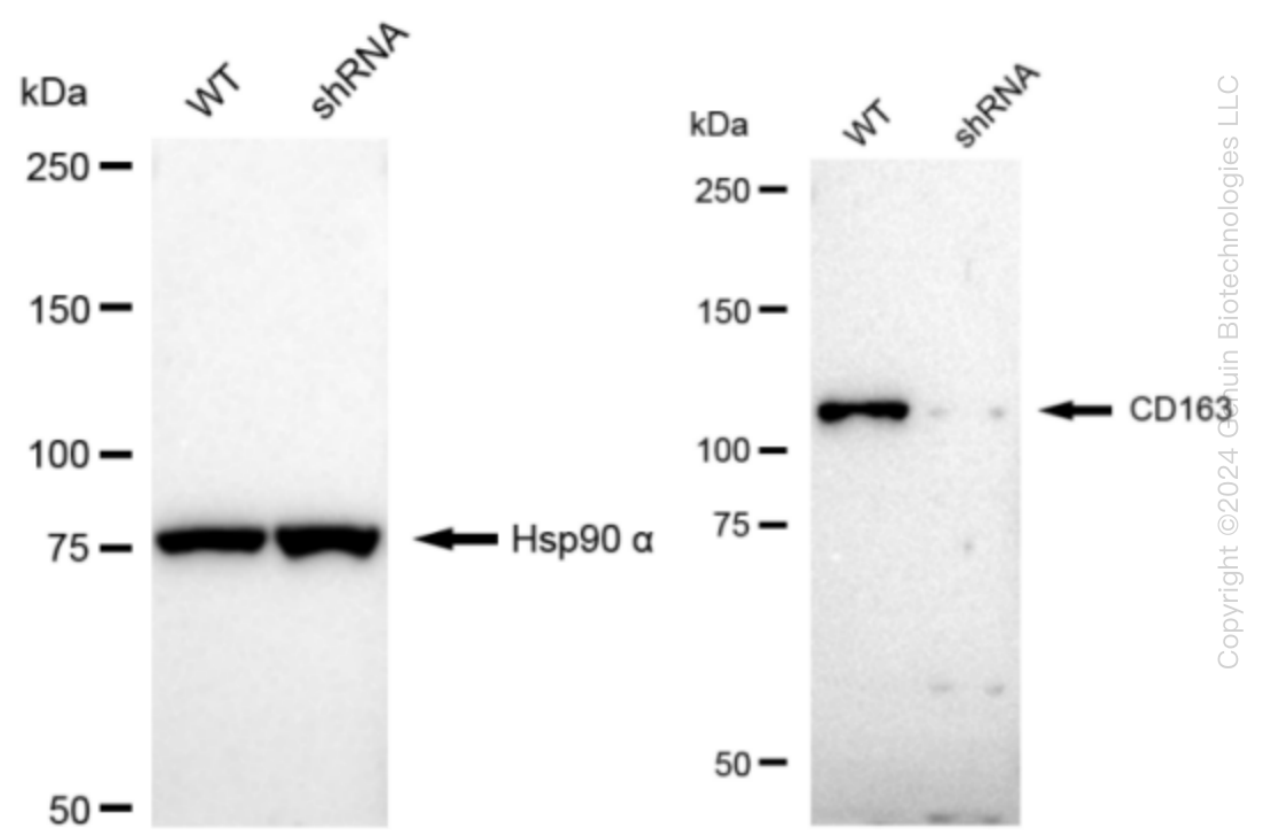
Western blotting analysis. CD163 protein expression in wild-type (WT) and shRNA knockdown (KD) HeLa cells was detected using Western blotting. Hsp90 α served as a loading control. The blots were incubated with primary antibodies (Cat#68431, 1:5,000) against CD163 and Hsp90 α, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody (Cat#201, 1:20,000). Images were developed using FeQ™ ECL Substrate Kit (Cat#226).

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