# Human CD99 Knockdown Cell Line (WB-Validated)

# Catalog #: C61390

## Aliases

CD99; CD99 Molecule (Xg Blood Group); CD99 Antigen; MIC2; Antigen Identified By Monoclonal Antibodies 12E7, F21 And O13; T-Cell Surface Glycoprotein E2; E2 Antigen; MIC2X; MIC2Y; Antigen Identified By Monoclonal 12E7, Y Homolog; MIC2 (Monoclonal Antibody 12E7); Cell Surface Antigen HBA-71; Cell Surface Antigen 12E7; Cell Surface Antigen O13; Surface Antigen MIC2; CD99 Molecule; Protein MIC2; HBA71; MSK5X; 12E7

## Background

Gene Name: CD99
NCBI Gene Entry: 4267

## Storage

Store at liquid nitrogen for 1 year.

## Kit Components

1. Human CD99 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.

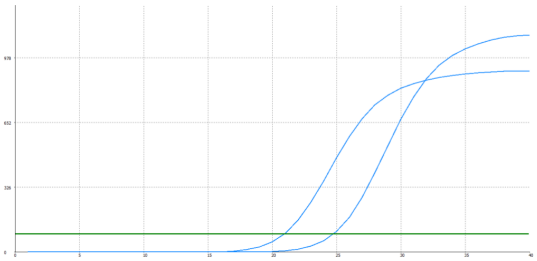
## Instructions For Use

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

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

### Validation Data

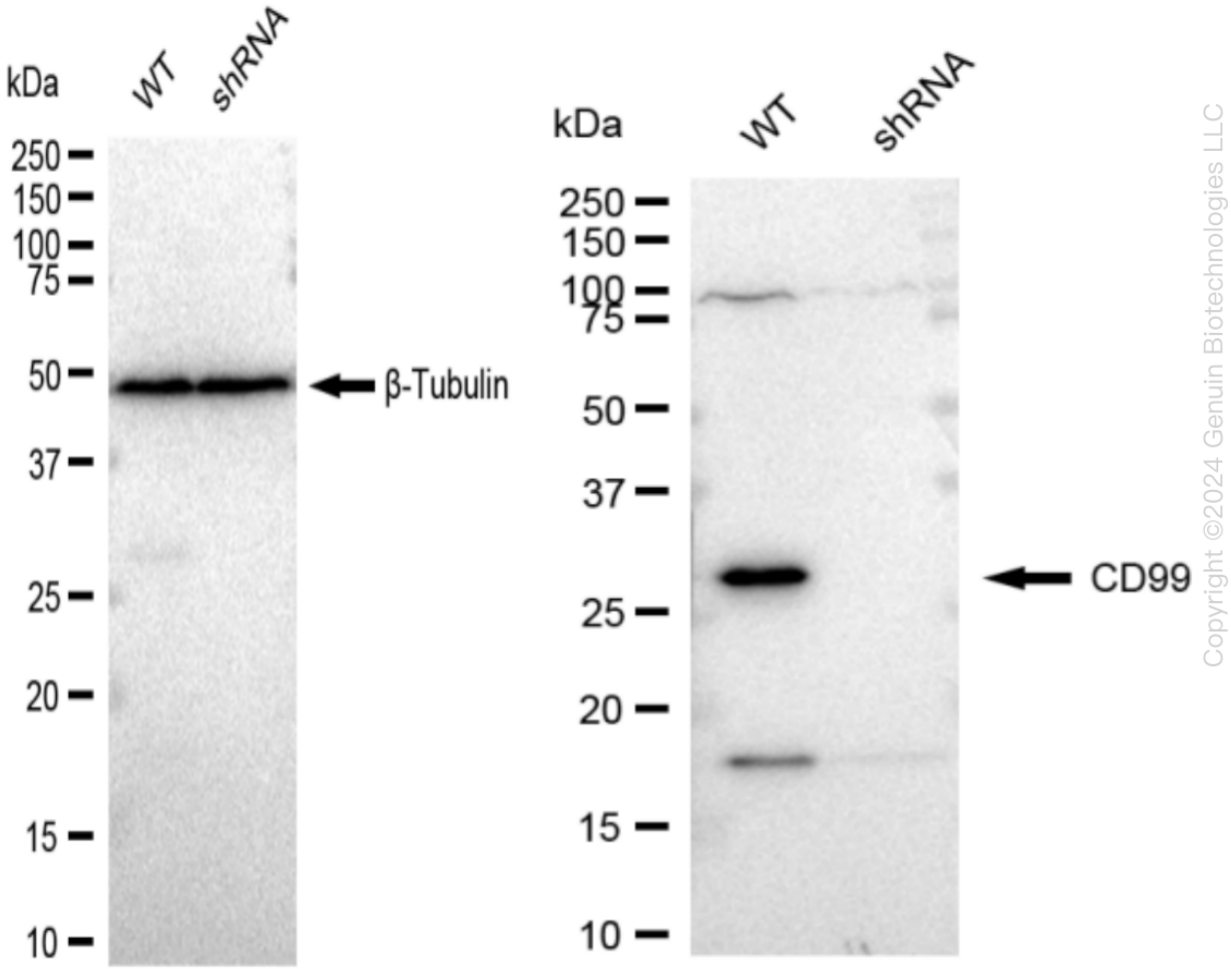
# Human CD99 Knockdown Cell Line (WB-Validated)



| Genotype | Ct Value |
|---|---|
| Wild-Type | 20.33 |
| Knock-Down | 24.46 |
| ΔCt ($Ct_{KD}$-$Ct_{WT}$) | 4.13 |
| % mRNA Reduction | ⬇ 94% |



RT-qPCR analysis. HeLa cells were infected with CD99-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. CD99 protein expression in wild-type (WT) and shRNA knockdown

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(KD) HeLa cells was detected using Western blotting.  β-Tubulin served as a loading control. The blots were incubated with primary antibodies (Cat#61390, 1:5,000) against CD99 and  β-Tubulin , 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).