

Human GCLM Knockdown Cell Line (WB-Validated)



Catalog #: C62007

Aliases

GCLM; Glutamate-Cysteine Ligase Modifier Subunit; GLCLR; Gamma-Glutamylcysteine Synthetase Regulatory Subunit; Glutamate--Cysteine Ligase Regulatory Subunit; Gamma-ECS Regulatory Subunit; GCS Light Chain; Glutamate-Cysteine Ligase (Gamma-Glutamylcysteine Synthetase), Regulatory (30.8kD); Glutamate-Cysteine Ligase Modifier Subunit Delta2 Alternative Splicing; Glutamate-Cysteine Ligase Regulatory Protein; Glutamate-Cysteine Ligase, Modifier Subunit; Glutamate--Cysteine Ligase Modifier Subunit; Gamma-Glutamylcysteine Synthetase; GSC Light Chain

Background

Gene Name: GCLM

NCBI Gene Entry: [2730](#)

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human GCLM 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

SUPPORT

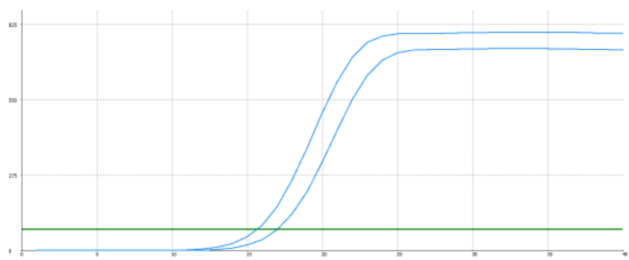
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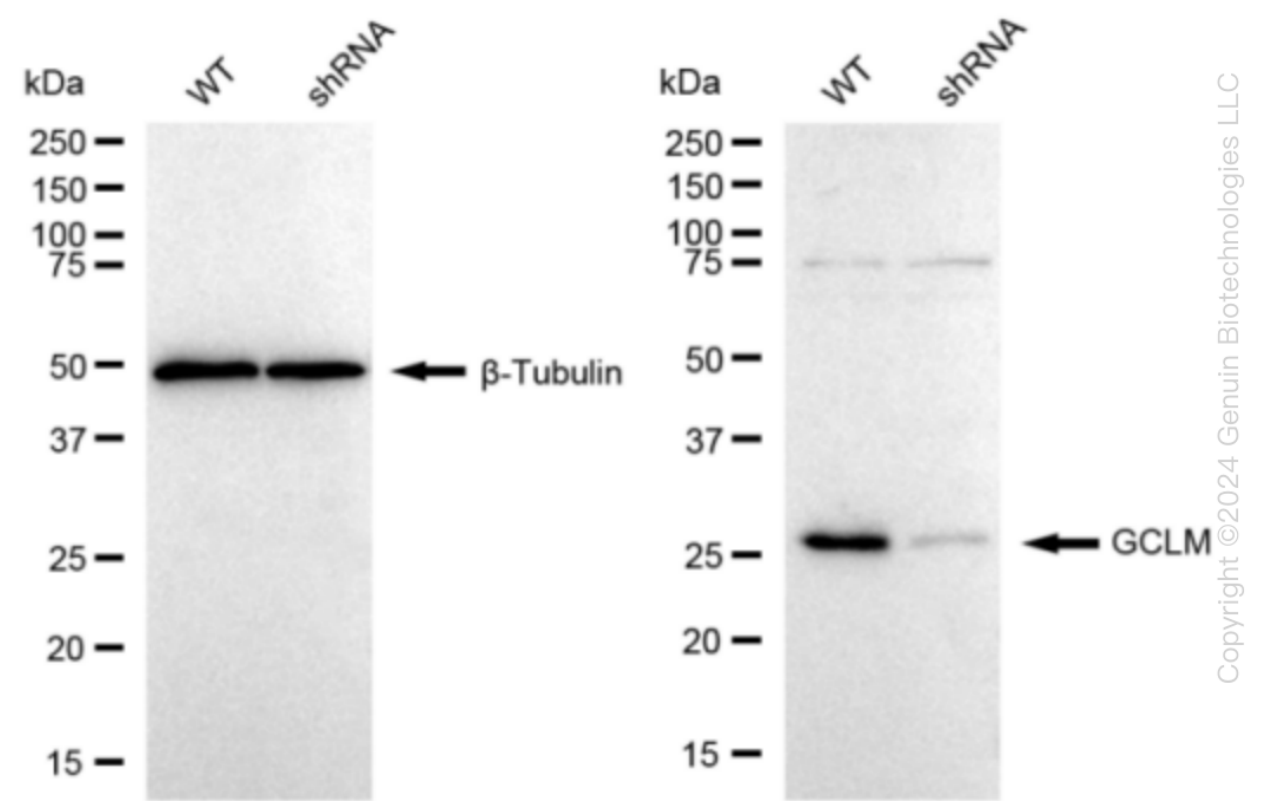
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Genotype	Ct Value
Wild-Type	15.14
Knock-Down	16.33
$\Delta Ct (Ct_{KD}-Ct_{WT})$	1.19
% mRNA Reduction	↓ 56%

RT-qPCR analysis. HeLa cells were infected with GCLM-specific shRNA lentiviral particles, total RNA was extracted from wild-type and knockdown cells, RT-qPCR was performed using gene-specific primers. $\Delta Ct (Ct_{KD}-Ct_{WT})$ 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. GCLM protein expression in wild-type (WT) and shRNA knockdown (KD) HeLa cells was detected using Western blotting. β -Tubulin served as a loading control. The blots were incubated with primary antibodies (Cat#62007, 1:5,000) against GCLM 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).

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