

Product datasheet for **LY300173**

GCLM Human Knockdown Lysate

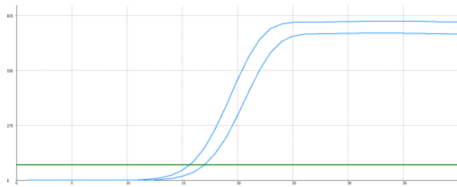
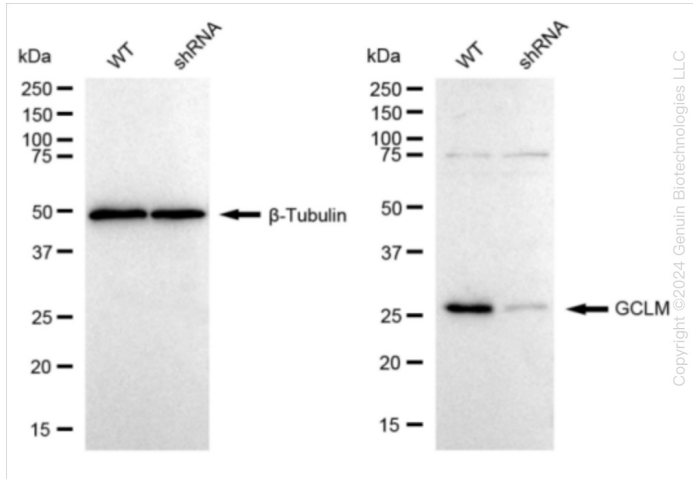
Product data:

Product Type:	Knockdown Lysates
Description:	WB-validated GCLM Knockdown HeLa Cell Lysate
Species:	Human
Expression Host:	HeLa
Tag:	Tag Free
Synonyms:	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
Predicted MW:	31 kDa
Components:	1 vial of 100 ug WT HeLa cell lysate 1 vial of 100 ug GCLM KD HeLa cell lysate
Storage:	Store at -20 °C for two years.
Concentration:	Lot-specific
Buffer:	IntactProtein Cell-Tissue Lysis buffer
Locus ID:	2730
UniProt ID:	P48507
Protein Families:	Druggable Genome
Protein Pathways:	Glutathione metabolism, Metabolic pathways



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Product images:



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

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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 against GCLM and β -Tubulin, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.

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: $(1 - 1/2^{\Delta Ct}) \times 100\%$.