Human GCLM Knockdown Cell Lysate

Cat. No. GCLM-173HKCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	WB-validated GCLM Knockdown HeLa Cell Lysate
Species	Human
Source	HeLa
Description	Glutamate-cysteine ligase, also known as gamma-glutamylcysteine synthetase, is the first rate limiting enzyme of glutathione synthesis. The enzyme consists of two subunits, a heavy catalytic subunit and a light regulatory subunit. Gamma glutamylcysteine synthetase deficiency has been implicated in some forms of hemolytic anemia. Alternative splicing results in multiple transcript variants encoding different isoforms.
Form	Cell-Tissue Lysis buffer
Molecular Mass	31 kDa
Notes	Instruction of use: This knockdown cell lysate should be paired with wild-type HeLa cell lysate for use. For Western blotting, we recommend running wild-type and knockdown lysates on the same gel, and loading each well with equal volume and equal amount of total proteins.
Storage	Store at -20 centigrade for two years.
Concentration	Lot-specific

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Shipping	Blue Ice
Components	1 vial of 100 µg WT HeLa cell lysate 1 vial of 100 µg GCLM KD HeLa cell lysate
Protein Families	Druggable Genome
Protein Pathways	Glutathione metabolism, Metabolic pathways
Lysate QC	RT-qPCR; Western Blotting (WB)

GENE INFORMATION

Gene Name	GCLM glutamate-cysteine ligase, modifier subunit [Homo sapiens (human)]
Official Symbol	GCLM
Synonyms	GCLM; glutamate-cysteine ligase, modifier subunit; GLCLR; glutamate--cysteine ligase regulatory subunit; gamma glutamylcysteine synthetase; GCS light chain; GSC light chain; gamma-ECS regulatory subunit; glutamate--cysteine ligase modifier subunit; glutamate-cysteine ligase regulatory protein; gamma-glutamylcysteine synthetase regulatory subunit; glutamate-cysteine ligase (gamma-glutamylcysteine synthetase), regulatory (30.8kD);
Gene ID	2730
mRNA Refseq	NM_002061
Protein Refseq	NP_002052
MIM	601176

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UniProt ID	P48507

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