

## Recombinant Human GCLM 293 Cell Lysate

**Cat. No.** GCLM-5982HCL    **Lot. No.** (See product label)

### SPECIFICATION

<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	Antigen standard for glutamate-cysteine ligase, modifier subunit (GCLM) is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
<b>Components</b>	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
<b>Size</b>	0.1 mg
<b>Storage Instruction</b>	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.
<b>Applications</b>	ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the

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mixture at room temperature for 30 min). Load 5 ug lysate per lane.

## GENE INFORMATION

<b>Gene Name</b>	GCLM glutamate-cysteine ligase, modifier subunit [ Homo sapiens ]
<b>Official Symbol</b>	GCLM
<b>Synonyms</b>	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);
<b>Gene ID</b>	2730
<b>mRNA Refseq</b>	NM_002061
<b>Protein Refseq</b>	NP_002052
<b>MIM</b>	601176
<b>UniProt ID</b>	P48507
<b>Chromosome Location</b>	1p21
<b>Pathway</b>	Biological oxidations, organism-specific biosystem; Glutathione biosynthesis, glutamate =>glutathione, organism-specific biosystem; Glutathione biosynthesis, glutamate => glutathione, conserved biosystem; Glutathione conjugation, organism-

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specific biosystem; Glutathione metabolism, organism-specific biosystem;

**Function**

contributes\_to glutamate-cysteine ligase activity; contributes\_to glutamate-cysteine ligase activity; glutamate-cysteine ligase catalytic subunit binding; protein heterodimerization activity;

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