

# Human GLS Knockdown Cell Lysate

Cat. No. GLS-176HKCL Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	WB-validated GLS Knockdown HeLa Cell Lysate
<b>Species</b>	Human
<b>Source</b>	HeLa
<b>Description</b>	<p>This gene encodes the K-type mitochondrial glutaminase. The encoded protein is an phosphate-activated amidohydrolase that catalyzes the hydrolysis of glutamine to glutamate and ammonia. This protein is primarily expressed in the brain and kidney plays an essential role in generating energy for metabolism, synthesizing the brain neurotransmitter glutamate and maintaining acid-base balance in the kidney. Alternate splicing results in multiple transcript variants.</p>
<b>Form</b>	Cell-Tissue Lysis buffer
<b>Molecular Mass</b>	73 kDa
<b>Notes</b>	<p>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.</p>
<b>Storage</b>	Store at -20 centigrade for two years.
<b>Concentration</b>	Lot-specific

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<b>Shipping</b>	Blue Ice
<b>Components</b>	1 vial of 100 µg WT HeLa cell lysate 1 vial of 100 µg GLS KD HeLa cell lysate
<b>Protein Pathways</b>	Alanine, Arginine and proline metabolism, aspartate and glutamate metabolism, D-Glutamine and D-glutamate metabolism, Metabolic pathways, Nitrogen metabolism
<b>Lysate QC</b>	RT-qPCR; Western Blotting (WB)

## GENE INFORMATION

<b>Gene Name</b>	GLS glutaminase [ Homo sapiens (human) ]
<b>Official Symbol</b>	GLS
<b>Synonyms</b>	GLS; glutaminase; glutaminase kidney isoform, mitochondrial; GLS1; KIAA0838; K-glutaminase; glutaminase C; L-glutamine amidohydrolase; glutaminase, phosphate-activated; GAC; GAM; KGA; AAD20; FLJ10358; FLJ41499; DKFZp686D14231; DKFZp686O15119;
<b>Gene ID</b>	2744
<b>mRNA Refseq</b>	NM_001256310
<b>Protein Refseq</b>	NP_001243239
<b>MIM</b>	138280
<b>UniProt ID</b>	O94925

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