

# Human GLUL Knockdown Cell Lysate

Cat. No. GLUL-177HKCL Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	WB-validated GLUL Knockdown HeLa Cell Lysate
<b>Species</b>	Human
<b>Source</b>	HeLa
<b>Description</b>	<p>The protein encoded by this gene belongs to the glutamine synthetase family. It catalyzes the synthesis of glutamine from glutamate and ammonia in an ATP-dependent reaction. This protein plays a role in ammonia and glutamate detoxification, acid-base homeostasis, cell signaling, and cell proliferation. Glutamine is an abundant amino acid, and is important to the biosynthesis of several amino acids, pyrimidines, and purines. Mutations in this gene are associated with congenital glutamine deficiency, and overexpression of this gene was observed in some primary liver cancer samples. There are six pseudogenes of this gene found on chromosomes 2, 5, 9, 11, and 12. Alternative splicing results in multiple transcript variants.</p>
<b>Form</b>	Cell-Tissue Lysis buffer
<b>Molecular Mass</b>	42 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>

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<b>Storage</b>	Store at -20 centigrade for two years.
<b>Concentration</b>	Lot-specific
<b>Shipping</b>	Blue Ice
<b>Components</b>	1 vial of 100 µg WT HeLa cell lysate 1 vial of 100 µg GLUL KD HeLa cell lysate
<b>Protein Pathways</b>	Alanine, Arginine and proline metabolism, aspartate and glutamate metabolism, Metabolic pathways, Nitrogen metabolism
<b>Lysate QC</b>	RT-qPCR; Western Blotting (WB)

## GENE INFORMATION

<b>Gene Name</b>	GLUL glutamate-ammonia ligase [ Homo sapiens (human) ]
<b>Official Symbol</b>	GLUL
<b>Synonyms</b>	GLUL; glutamate-ammonia ligase; GLNS, glutamate ammonia ligase (glutamine synthase); glutamine synthetase; glutamine synthase; glutamate decarboxylase; glutamate--ammonia ligase; proliferation-inducing protein 43; cell proliferation-inducing protein 59; GS; GLNS; PIG43; PIG59;
<b>Gene ID</b>	2752
<b>mRNA Refseq</b>	NM_001033044
<b>Protein Refseq</b>	NP_001028216
<b>MIM</b>	138290

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