

Human CPS1 Knockdown Cell Lysate

Cat. No. CPS1-122HKCL Lot. No. (See product label)

SPECIFICATION

Product Overview	WB-validated CPS1 Knockdown HeLa Cell Lysate
Species	Human
Source	HeLa
Description	<p>The mitochondrial enzyme encoded by this gene catalyzes synthesis of carbamoyl phosphate from ammonia and bicarbonate. This reaction is the first committed step of the urea cycle, which is important in the removal of excess urea from cells. The encoded protein may also represent a core mitochondrial nucleoid protein. Three transcript variants encoding different isoforms have been found for this gene. The shortest isoform may not be localized to the mitochondrion. Mutations in this gene have been associated with carbamoyl phosphate synthetase deficiency, susceptibility to persistent pulmonary hypertension, and susceptibility to venoocclusive disease after bone marrow transplantation.</p>
Form	Cell-Tissue Lysis buffer
Molecular Mass	165 kDa
Notes	<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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Storage	Store at -20 centigrade for two years.
Concentration	Lot-specific
Shipping	Blue Ice
Components	1 vial of 100 µg WT HeLa cell lysate 1 vial of 100 µg CPS1 KD HeLa cell lysate
Protein Families	Druggable Genome
Protein Pathways	Alanine, Arginine and proline metabolism, aspartate and glutamate metabolism, Metabolic pathways, Nitrogen metabolism
Lysate QC	RT-qPCR; Western Blotting (WB)

GENE INFORMATION

Gene Name	CPS1 carbamoyl-phosphate synthase 1, mitochondrial [Homo sapiens (human)]
Official Symbol	CPS1
Synonyms	CPS1; carbamoyl-phosphate synthase 1, mitochondrial; carbamoyl phosphate synthetase 1, mitochondrial; carbamoyl-phosphate synthase [ammonia], mitochondrial; carbamoylphosphate synthetase I; CPSASE1;
Gene ID	1373
mRNA Refseq	NM_001122633
Protein Refseq	NP_001116105

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