Human CTPS1 Knockdown Cell Lysate

Cat. No. CTPS1-002HKCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	WB-validated CTPS1 Knockdown Cell Lysate
Species	Human
Source	293T
Description	This gene encodes an enzyme responsible for the catalytic conversion of UTP (uridine triphosphate) to CTP (cytidine triphospate). This reaction is an important step in the biosynthesis of phospholipids and nucleic acids. Activity of this proten is important in the immune system, and loss of function of this gene has been associated with immunodeficiency. Alternative splicing results in multiple transcript variants.
Form	Cell-Tissue Lysis buffer
Molecular Mass	67 kDa
Notes	Instruction of use: This knockdown cell lysate should be paired with wild-type 293T 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 293T cell lysate 1 vial of 100 µg CTPS1 KD 293T cell lysate
Protein Pathways	Metabolic pathways, Pyrimidine metabolism
Lysate QC	RT-qPCR; Western Blotting (WB)

GENE INFORMATION

Gene Name	CTPS1 CTP synthase 1 [Homo sapiens (human)]
Official Symbol	CTPS1
Synonyms	CTPS1; CTP synthase 1; CTPS; GATD5; IMD24; GATD5A; CTP synthase 1; CTP synthetase 1; UTP--ammonia ligase 1; cytidine 5'-triphosphate synthetase; cytidine 5-prime triphosphate synthetase; EC 6.3.4.2
Gene ID	1503
mRNA Refseq	NM_001905
Protein Refseq	NP_001896
MIM	123860
UniProt ID	P17812

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