

## Human MRPS15 Knockdown Cell Lysate

**Cat. No.** MRPS15-373HKCL    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	WB-validated MRPS15 Knockdown HeLa Cell Lysate
<b>Species</b>	Human
<b>Source</b>	HeLa
<b>Description</b>	<p>Mammalian mitochondrial ribosomal proteins are encoded by nuclear genes and help in protein synthesis within the mitochondrion. Mitochondrial ribosomes (mitoribosomes) consist of a small 28S subunit and a large 39S subunit. They have an estimated 75% protein to rRNA composition compared to prokaryotic ribosomes, where this ratio is reversed. Another difference between mammalian mitoribosomes and prokaryotic ribosomes is that the latter contain a 5S rRNA. Among different species, the proteins comprising the mitoribosome differ greatly in sequence, and sometimes in biochemical properties, which prevents easy recognition by sequence homology. This gene encodes a 28S subunit protein that belongs to the ribosomal protein S15P family. The encoded protein is more than two times the size of its E. coli counterpart, with the 12S rRNA binding sites conserved. Between human and mouse, the encoded protein is the least conserved among small subunit ribosomal proteins. Pseudogenes corresponding to this gene are found on chromosomes 15q and 19q.</p>
<b>Form</b>	Cell-Tissue Lysis buffer
<b>Molecular Mass</b>	30 kDa
<b>Notes</b>	Instruction of use: This knockdown cell lysate should be paired with wild-type HeLa

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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.

<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 MRPS15 KD HeLa cell lysate
<b>Lysate QC</b>	RT-qPCR; Western Blotting (WB)

## GENE INFORMATION

<b>Gene Name</b>	MRPS15 mitochondrial ribosomal protein S15 [ Homo sapiens (human) ]
<b>Official Symbol</b>	MRPS15
<b>Synonyms</b>	MRPS15; mitochondrial ribosomal protein S15; 28S ribosomal protein S15, mitochondrial; FLJ11564; MRP-S15; DC37; S15mt; RPMS15; MPR-S15;
<b>Gene ID</b>	64960
<b>mRNA Refseq</b>	NM_031280
<b>Protein Refseq</b>	NP_112570
<b>MIM</b>	611979

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