

Human MRPS15 Knockdown Cell Lysate

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

SPECIFICATION

Product Overview	WB-validated MRPS15 Knockdown HeLa Cell Lysate
Species	Human
Source	HeLa
Description	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.
Form	Cell-Tissue Lysis buffer
Molecular Mass	30 kDa
Notes	Instruction of use: This knockdown cell lysate should be paired with wild-type HeLa

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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
Shipping	Blue Ice
Components	1 vial of 100 µg WT HeLa cell lysate 1 vial of 100 µg MRPS15 KD HeLa cell lysate
Lysate QC	RT-qPCR; Western Blotting (WB)

GENE INFORMATION

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

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