

Recombinant Human MRPL18 Protein, GST-tagged

Cat. No. MRPL18-5562H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human MRPL18 full-length ORF (NP_054880.2, 1 a.a. - 180 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
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 39S subunit protein that belongs to the L18P ribosomal protein family. Three polymorphic sites exist in this gene, one of which is three nt in length which causes an extra aa near the N-terminus. [provided by RefSeq]
Molecular Mass	47 kDa
AA Sequence	MALRSRFWGLFSVCRNPGCRFAALSTSSEPAAKPEVDPVENEAVAPEFTNRNPRNL ELLSVARKERGWRTVFPSREFWHRLRVIRTQHHVEALVEHQNGKVVVSASTREWAI KKHLYSTRNVVACESIGRVLAQRCLEAGINFMVYQPTPWEAASDSMKRLQSAMTEG

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GVVLRPQRIYE

Applications

Enzyme-linked Immunoabsorbent Assay
Western Blot (Recombinant protein)
Antibody Production
Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

MRPL18 mitochondrial ribosomal protein L18 [Homo sapiens]

Official Symbol

MRPL18

Synonyms

MRPL18; mitochondrial ribosomal protein L18; 39S ribosomal protein L18, mitochondrial; HSPC071; L18mt; MRP-L18;

Gene ID

29074

mRNA Refseq

NM_014161

Protein Refseq

NP_054880

MIM

611831

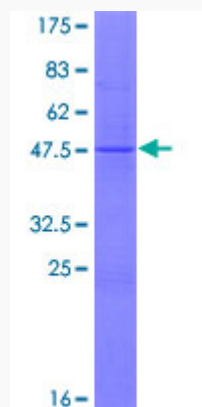
UniProt ID

Q9H0U6

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Quality Control**Testing:**

12.5% SDS-PAGE Stained with Coomassie Blue.

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