Recombinant Full Length Human MRPL18 Protein, GST-tagged

Cat. No. MRPL18-6391HF **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	In Vitro Cell Free System
ProteinLength	180 amino acids
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

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	KKHLYSTRNVVACESIGRVLAQRCLEAGINFMVYQPTPWEAASDSMKRLQSAMTEG GVVLREPQRIYE
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

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UniProt ID	Q9H0U6

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