

Recombinant Full Length Human MRPL49 Protein, GST-tagged

Cat. No. MRPL49-6437HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human MRPL49 full-length ORF (NP_004918.1, 1 a.a. - 166 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	166 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. This gene and the gene for the HRD1 protein use in their respective 3 UTRs some of the same genomic sequence. Pseudogenes corresponding to this gene are found on chromosomes 5q and 8p. [provided by RefSeq]
Molecular Mass	45.6 kDa
AA Sequence	MAATMFRATLRGWRTGVQRCGLRLLSQTGPPDYPRFVESVDEYQFVERLLPAT

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	RIPDPPKHEHYPTPSGWQPPRDPPPNLPYFVRRSRMHNIPVYKDITHGNRQMTVIR KVEGDIWALQKDVEDFLSPLLGKTPVTQVNEVTGTLRIKGYFDQELKAWLLEKGF
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	MRPL49 mitochondrial ribosomal protein L49 [Homo sapiens]
Official Symbol	MRPL49
Synonyms	MRPL49; mitochondrial ribosomal protein L49; C11orf4, chromosome 11 open reading frame 4; 39S ribosomal protein L49, mitochondrial; L49mt; neighbor of FAU; next to FAU; NOF; NOF1; C11orf4; MRP-L49; MGC10656;
Gene ID	740
mRNA Refseq	NM_004927
Protein Refseq	NP_004918
MIM	606866

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UniProt ID

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