

Recombinant Full Length Human MRPL47 Protein, GST-tagged

Cat. No. MRPL47-6430HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human MRPL47 full-length ORF (NP_817125.1, 1 a.a. - 140 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	140 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 is immediately adjacent to the gene for BAF complex 53 kDa subunit protein a (BAF53a), in a tail-to-tail orientation. Two transcript variants encoding different protein isoforms have been identified. [provided by RefSeq]
Molecular Mass	43.4 kDa
AA Sequence	MLLTLEQEAKRQRLPMPSPERLDKVVDSMDALDKVVQEREDALRLLQTGQERARP

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	GAWRRDIFGRIIWHKFKQWVIPWHLNKRYNRKRFFALPYVDHFLRLEREKRARIKAR KENLERKKAKILLKKFPHLAEAQKSSLV
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	MRPL47 mitochondrial ribosomal protein L47 [Homo sapiens]
Official Symbol	MRPL47
Synonyms	NCM1; L47mt; CGI-204; MRP-L47
Gene ID	57129
mRNA Refseq	NM_177988
Protein Refseq	NP_817125
MIM	611852
UniProt ID	Q9HD33

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