

Recombinant Human MRPL43 Protein, GST-tagged

Cat. No. MRPL43-5587H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human MRPL43 full-length ORF (NP_115488.2, 1 a.a. - 159 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. This gene and the gene for a semaphorin class 4 protein (SEMA4G) overlap at map location 10q24.31 and are transcribed in opposite directions. Sequence analysis identified multiple transcript variants encoding at least four different protein isoforms. [provided by RefSeq]
Molecular Mass	44.3 kDa
AA Sequence	MTARGTPSRFLASVLHNGLG RYVQQLQRLSFSVSRDGASSRGAREFVEREVIDFAR RNPGVVIYVNSRPCCVPRVVAEYLN GAVREESI HCKSV E EISTLVQKLADQSGLDVIR

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IRKPFHTDNPSIQGQWHPFTNKPTTFRGLRPREVQDPAPAQVQAQ

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

MRPL43 mitochondrial ribosomal protein L43 [Homo sapiens]

Official Symbol

MRPL43

Synonyms

MRPL43; mitochondrial ribosomal protein L43; 39S ribosomal protein L43, mitochondrial; bMRP36a; L43mt; MRP-L43; mitochondrial ribosomal protein bMRP36a; MGC17989; MGC48892;

Gene ID

84545

mRNA Refseq

NM_032112

Protein Refseq

NP_115488

MIM

611848

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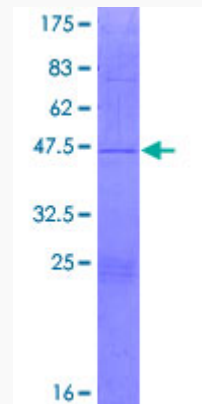
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UniProt ID

Q8N983

Quality Control

Testing:



12.5% SDS-PAGE Stained with Coomassie Blue.

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