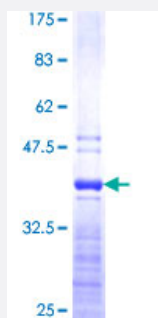


MRPL49 (Human) Recombinant Protein (Q01)

Catalog # H00000740-Q01

Size 10 ug, 25 ug

Applications



Specification

Product Description	Human MRPL49 partial ORF (NP_004918, 67 a.a. - 166 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	PTPSGWQPPRDPPPNLPYFVRRSRMHNIPVYKDITHGNRQMTVIRKVEGDWALQKDVEDFLSPL LGKTPVTQVNEVTGTLRIKGYFDQELKAWLLEKGF
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.74
Interspecies Antigen Sequence	Mouse (92); Rat (93)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

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

Gene Info — MRPL49

Entrez GeneID [740](#)

GeneBank Accession# [NM_004927](#)

Protein Accession# [NP_004918](#)

Gene Name MRPL49

Gene Alias C11orf4, L49mt, MGC10656, NOF, NOF1

Gene Description mitochondrial ribosomal protein L49

Omim ID [606866](#)

Gene Ontology [Hyperlink](#)

Gene Summary Mammalian mitochondrial ribosomal proteins are encoded by nuclear genes and help in protein synthesis within the mitochondrion. Mitochondrial ribosomes (mitoribosomes) consist of a small 28 S 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]

Other Designations neighbor of FAU|next to FAU