

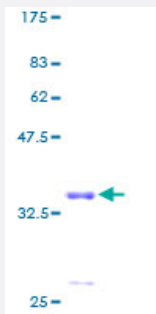
Full-Length

MRPS21 (Human) Recombinant Protein (P01)

Catalog # H00054460-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human MRPS21 full-length ORF (AAH04566, 1 a.a. - 87 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MAKHLKFIARTVMVQEGNVESAYRTLNRILTMDGLIEDIKHRRYYEKPCRRRQRESYERCRRYNME MARKINFLMRKNRADPWQGC
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	35.31
Interspecies Antigen Sequence	Mouse (90); Rat (91)
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 — MRPS21

Entrez GeneID [54460](#)

GeneBank Accession# [BC004566](#)

Protein Accession# [AAH04566](#)

Gene Name MRPS21

Gene Alias MDS016, MRP-S21, RPMS21

Gene Description mitochondrial ribosomal protein S21

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 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 28S subunit protein that belongs to the ribosomal protein S21P family. Pseudogenes corresponding to this gene are found on chromosomes 1p, 1q, 9p, 10p, 10q, 16q, and 17q. Available sequence data analyses identified splice variants that differ in the 5' UTR; both transcripts encode the same protein. [provided by RefSeq]

Other Designations OTTHUMP00000014527|OTTHUMP00000014921|mitochondrial 28S ribosomal protein S21