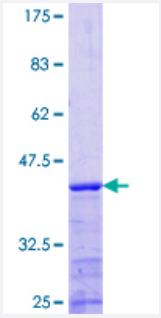
MRPS22 (Human) Recombinant Protein (Q01)

Catalog # H00056945-Q01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human MRPS22 partial ORF (NP_064576.1, 21 a.a. - 119 a.a.) recombinant protein with GST-tag a t N-terminal.
Sequence	ERVCFRARIQPWHGGLLQPLPCSFEMGLPRRRFSSEAAESGSPETKKPTFMDEEVQSILTKMTG LNLQKTFKPAIQELKPPTYKLMTQAQLEEATRQAV
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.63
Interspecies Antigen Sequence	Mouse (78); Rat (78)
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 — MRPS22

Entrez GeneID	56945
GeneBank Accession#	NM_020191
Protein Accession#	NP_064576.1
Gene Name	MRPS22
Gene Alias	C3orf5, COXPD5, GIBT, GK002, MRP-S22, RPMS22
Gene Description	mitochondrial ribosomal protein S22
Omim ID	605810
Gene Ontology	Hyperlink
Gene Summary	Mammalian mitochondrial ribosomal proteins are encoded by nuclear genes and help in protein s ynthesis 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 co mpared to prokaryotic ribosomes, where this ratio is reversed. Another difference between mam malian mitoribosomes and prokaryotic ribosomes is that the latter contain a 5S rRNA. Among diff erent species, the proteins comprising the mitoribosome differ greatly in sequence, and sometim es in biochemical properties, which prevents easy recognition by sequence homology. This gene encodes a 28S subunit protein that does not seem to have a counterpart in prokaryotic and fungal -mitochondrial ribosomes. This gene lies telomeric of and is transcribed in the opposite direction from the forkhead box L2 gene. A pseudogene corresponding to this gene is found on chromoso me Xq. [provided by RefSeq
Other Designations	-