

## Product datasheet for **TA342837**

### MRPL49 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for anti-MRPL49 antibody: synthetic peptide directed towards the N terminal of human MRPL49. Synthetic peptide located within the following region: ESVDEYQFVERLLPATRIPDPPKHEHYPTSGWQPPRDPNLPYFVRRS
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	19 kDa
Gene Name:	mitochondrial ribosomal protein L49
Database Link:	<a href="#">NP_004918</a> <a href="#">Entrez Gene 740 Human</a> <a href="#">Q13405</a>



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**Background:**

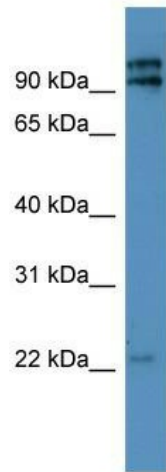
Mammalian mitochondrial ribosomal proteins are encoded by nuclear genes and help in protein synthesis within the mitochondrion. Mitochondrial ribosomes (mitoribosomes) consist of a small 28S subunit and a large 39S subunit. They have an estimated 75% protein to rRNA composition compared to prokaryotic 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 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.

**Synonyms:**

C11orf4; L49mt; MRP-L49; NOF; NOF1

**Note:**

Immunogen Sequence Homology: Human: 100%; Pig: 92%; Horse: 92%; Guinea pig: 92%; Dog: 86%; Rat: 86%; Bovine: 86%; Rabbit: 83%; Mouse: 79%

**Product images:**


WB Suggested Anti-MRPL49 Antibody Titration:  
0.2-1 ug/ml; ELISA Titer: 1:62500; Positive Control:  
Jurkat cell lysate