

## Product datasheet for **TA342962**

### MRPL45 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-MRPL45 antibody: synthetic peptide directed towards the C terminal of human MRPL45. Synthetic peptide located within the following region: YGSWRMHTKIVPPWAPPKQILKTVMIKPGPQLKPEEEYEEAQGEAQKPQL
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	35 kDa
Gene Name:	mitochondrial ribosomal protein L45
Database Link:	<a href="#">NP_115727</a> <a href="#">Entrez Gene 84311 Human</a>
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. Pseudogenes corresponding to this gene are found on chromosomes 2p and 17q.



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**Synonyms:** L45mt; MRP-L45

**Note:** Immunogen Sequence Homology: Human: 100%; Mouse: 91%; Rat: 82%; Bovine: 75%; Zebrafish: 75%

**Product images:**



WB Suggested Anti-MRPL45 Antibody; Titration: 1.0 ug/ml; Positive Control: Fetal Heart