

# **Product datasheet for TA342962**

### **MRPL45 Rabbit Polyclonal Antibody**

#### **Product data:**

**Product Type:** Primary Antibodies

Applications: WB

Recommended Dilution: WB

Reactivity: Human

**Host:** Rabbit

**Isotype:** lgG

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: YGSWRMHTKIVPPWAPPKQPILKTVMIPGPQLKPEEEYEEAQGEAQKPQL

Formulation: Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2%

sucrose.

Note that this product is shipped as lyophilized powder to China customers.

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: NP 115727

Entrez Gene 84311 Human

**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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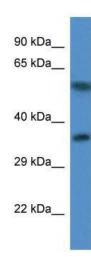
### MRPL45 Rabbit Polyclonal Antibody - TA342962

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