

## Product datasheet for **TA339353**

### MRPS12 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-MRPS12 antibody: synthetic peptide directed towards the N terminal of human MRPS12. Synthetic peptide located within the following region: LVPRLWATCSMATLNQMHRLLGPPKRPKRKLGPTGRPQLKGVVLCFTFRK
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>
Concentration:	lot specific
Purification:	Protein A purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	12 kDa
Gene Name:	mitochondrial ribosomal protein S12
Database Link:	<a href="#">NP_066930</a> <a href="#">Entrez Gene 6183 Human</a> <a href="#">O15235</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 28S subunit protein that belongs to the ribosomal protein S12P family. The encoded protein is a key component of the ribosomal small subunit and controls the decoding fidelity and susceptibility to aminoglycoside antibiotics. The gene for mitochondrial seryl-tRNA synthetase is located upstream and adjacent to this gene, and both genes are possible candidates for the autosomal dominant deafness gene (DFNA4). Splice variants that differ in the 5' UTR have been found for this gene; all three variants encode the same protein. [provided by RefSeq, Jul 2008]

**Synonyms:**

MPR-S12; MT-RPS12; RPMS12; RPS12; RPSM12

**Note:**

Immunogen Sequence Homology: Human: 100%; Dog: 91%; Pig: 86%; Rat: 86%; Bovine: 86%; Guinea pig: 86%; Horse: 79%

**Protein Families:**

Druggable Genome, Stem cell - Pluripotency

**Product images:**

WB Suggested Anti-MRPS12 Antibody Titration:  
0.2-1 ug/ml; Positive Control: Jurkat cell lysate