

Product datasheet for **AP53678PU-N**

MRPL51 (C-term) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	ELISA: 1/1000. Western Blot: 1/100-1/500.
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	Ig
Clonality:	Polyclonal
Immunogen:	KLH conjugated synthetic peptide between 103-132 amino acids from the C-terminal region of Human RM51
Specificity:	This antibody recognizes Human and Mouse MRPL51 (C-term).
Formulation:	PBS State: Aff - Purified State: Liquid purified Ig fraction Preservative: 0.09% Sodium Azide
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein A
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	mitochondrial ribosomal protein L51
Database Link:	Entrez Gene 66493 Mouse Entrez Gene 51258 Human Q4U2R6



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Background:

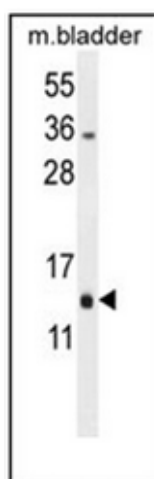
Mammalian mitochondrial ribosomal proteins are encoded by nuclear genes and help in protein synthesis within the mitochondrion. Mitochondrial ribosomes (mitoribosomes) consist of a small 28S subunit and a large 39S subunit. They have an estimated 75% protein to rRNA composition compared to prokaryotic 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. Pseudogenes corresponding to this gene are found on chromosomes 4p and 21q.

Synonyms:

L51mt, MRP-L51, MRP64, CDA09, HSPC241

Note:

Molecular Weight: 15095 Da

Product images:

Western blot analysis of MRPL51 Antibody (C-term) in Mouse bladder tissue lysates (35ug/lane). This demonstrates the RM51 antibody detected the RM51 protein (arrow).