

**RM51 Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP10931b**

**Specification**

---

**RM51 Antibody (C-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">Q4U2R6</a>
Other Accession	<a href="#">NP_057581.2</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	15095
Antigen Region	100-128

**RM51 Antibody (C-term) - Additional Information**

**Gene ID** 51258

**Other Names**

39S ribosomal protein L51, mitochondrial, L51mt, MRP-L51, bMRP-64, bMRP64, MRPL51, MRP64

**Target/Specificity**

This RM51 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 100-128 amino acids from the C-terminal region of human RM51.

**Dilution**

WB~~1:1000

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

RM51 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**RM51 Antibody (C-term) - Protein Information**

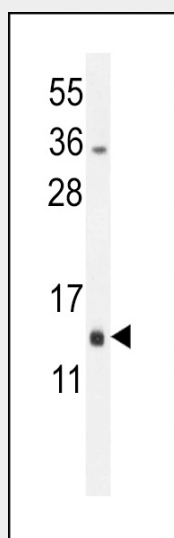
**Name** MRPL51

**Synonyms** MRP64

**Cellular Location**  
Mitochondrion**RM51 Antibody (C-term) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**RM51 Antibody (C-term) - Images**

RM51 Antibody (C-term) (Cat. #AP10931b) western blot analysis in mouse bladder tissue lysates (35ug/lane). This demonstrates the RM51 antibody detected the RM51 protein (arrow).

**RM51 Antibody (C-term) - 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.

**RM51 Antibody (C-term) - References**

Zhang, Z., et al. Genomics 81(5):468-480(2003)  
Koc, E.C., et al. J. Biol. Chem. 276(47):43958-43969(2001)  
Kenmochi, N., et al. Genomics 77 (1-2), 65-70 (2001) :  
Suzuki, T., et al. J. Biol. Chem. 276(35):33181-33195(2001)