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RM51 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP10931b

Specification

RM51 Antibody (C-term) - Product Information

Application	**WB,E**
Primary Accession	Q4U2R6
Other Accession	NP_057581.2
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
E~~Use at an assay dependent concentration.

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

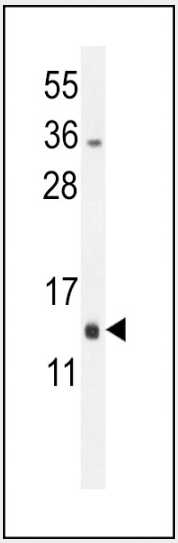
Cellular Location
Mitochondrion

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 Cytomety
- 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)