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RM33 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13878B

Specification

RM33 Antibody (C-term) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	O75394
Other Accession	NP_004882.1
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**7619**
Antigen Region	**36-65**

RM33 Antibody (C-term) - Additional Information

Gene ID 9553

Other Names
39S ribosomal protein L33, mitochondrial, L33mt, MRP-L33, MRPL33, C2orf1

Target/Specificity
This RM33 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 36-65 amino acids from the C-terminal region of human RM33.

Dilution
WB~~1:1000
IHC-P~~1:10~50

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
RM33 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

RM33 Antibody (C-term) - Protein Information

Name MRPL33

Synonyms C2orf1

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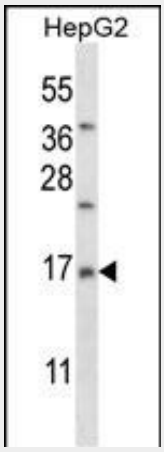
Cellular Location
Mitochondrion

RM33 Antibody (C-term) - Protocols

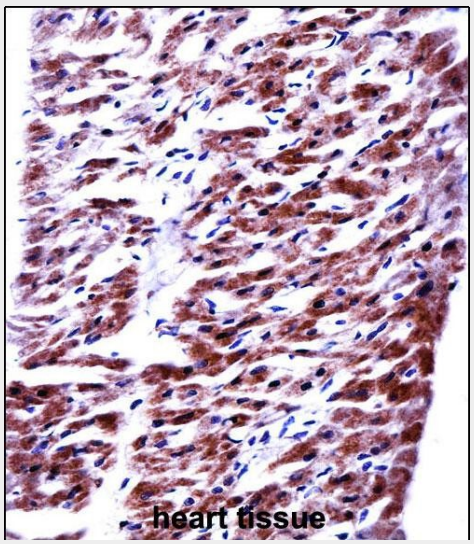
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

RM33 Antibody (C-term) - Images



RM33 Antibody (C-term) (Cat. #AP13878b) western blot analysis in HepG2 cell line lysates (35ug/lane).This demonstrates the RM33 antibody detected the RM33 protein (arrow).



RM33 Antibody (C-term) (AP13878b)immunohistochemistry analysis in formalin fixed and paraffin

embedded human heart tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of RM33 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

RM33 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. Alternatively spliced transcript variants encoding different isoforms have been described.

RM33 Antibody (C-term) - References

Hillier, L.W., et al. Nature 434(7034):724-731(2005)
Zhang, Z., et al. Genomics 81(5):468-480(2003)
Kenmochi, N., et al. Genomics 77 (1-2), 65-70 (2001) :
Suzuki, T., et al. J. Biol. Chem. 276(24):21724-21736(2001)