

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

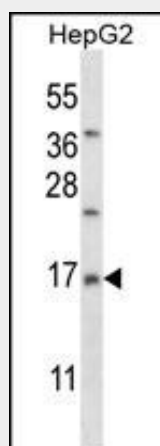
RM33 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

RM33 Antibody (C-term) - Protein Information**Name** MRPL33**Synonyms** C2orf1

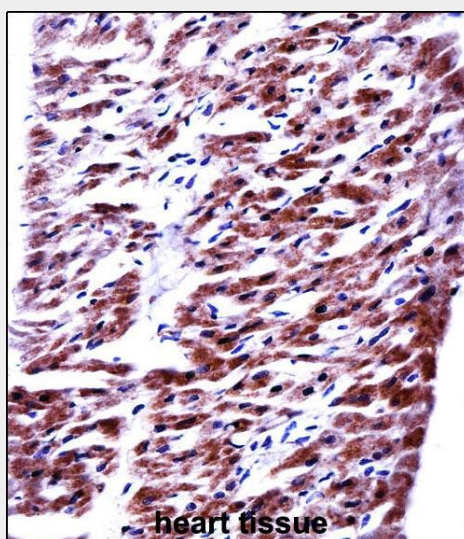
Cellular Location
Mitochondrion**RM33 Antibody (C-term) - Protocols**

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

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