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RT33 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP5131b

Specification

RT33 Antibody (C-term) - Product Information

Application	**WB, IHC-P, FC,E**
Primary Accession	Q9Y291
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**12629**
Antigen Region	**72-100**

RT33 Antibody (C-term) - Additional Information

Gene ID 51650

Other Names
28S ribosomal protein S33, mitochondrial, MRP-S33, S33mt, MRPS33

Target/Specificity
This RT33 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 72-100 amino acids from the C-terminal region of human RT33.

Dilution
WB~~1:1000
IHC-P~~1:50~100
FC~~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
RT33 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

RT33 Antibody (C-term) - Protein Information

Name MRPS33

Cellular Location

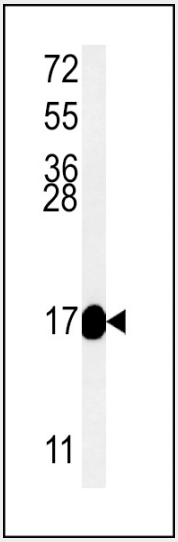
Mitochondrion.

RT33 Antibody (C-term) - Protocols

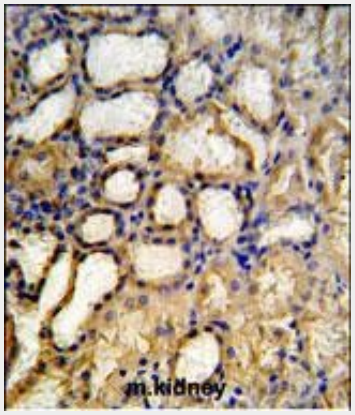
Provided below are standard protocols that you may find useful for product applications.

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

RT33 Antibody (C-term) - Images

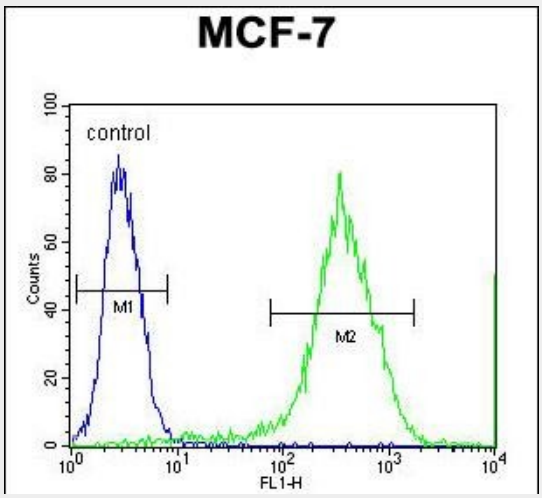


Western blot analysis of RT33 Antibody (C-term) (Cat. #AP5131b) in mouse kidney tissue lysates (35ug/lane).RT33 (arrow) was detected using the purified Pab.



RT33 Antibody (C-term) (Cat. #AP5131b) IHC analysis in formalin fixed and paraffin embedded mouse kidney tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the RT33 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

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RT33 Antibody (C-term) (Cat. #AP5131b) flow cytometric analysis of MCF-7 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

RT33 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. The 28S subunit of the mammalian mitoribosome may play a crucial and characteristic role in translation initiation. This gene encodes a 28S subunit protein that is one of the more highly conserved mitochondrial ribosomal proteins among mammals, Drosophila and C. elegans.

RT33 Antibody (C-term) - References

Tsuritani, K., et al. Genome Res. 17(7):1005-1014(2007) Zhang, Z., et al. Genomics 81(5):468-480(2003) Cavdar Koc, E., et al. J. Biol. Chem. 276(22):19363-19374(2001)