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RM50 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12930B

Specification

RM50 Antibody (C-term) - Product Information

Application	**IHC-P, WB,E**
Primary Accession	Q8N5N7
Other Accession	NP_061924.1
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**18325**
Antigen Region	**119-147**

RM50 Antibody (C-term) - Additional Information

Gene ID 54534

Other Names
39S ribosomal protein L50, mitochondrial, L50mt, MRP-L50, MRPL50

Target/Specificity
This RM50 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 119-147 amino acids from the C-terminal region of human RM50.

Dilution
IHC-P~~1:10~50
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
RM50 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

RM50 Antibody (C-term) - Protein Information

Name MRPL50

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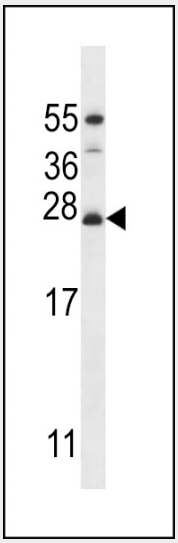
Cellular Location
Mitochondrion

RM50 Antibody (C-term) - Protocols

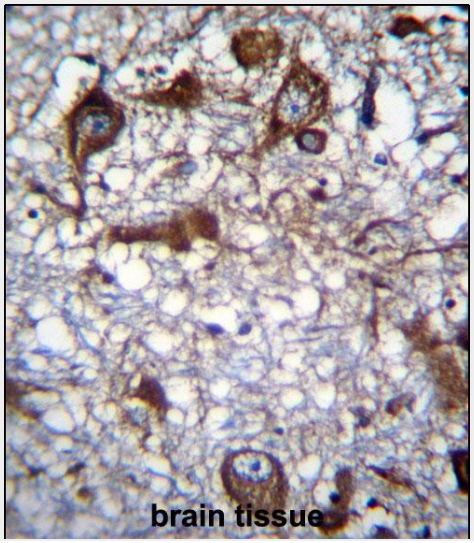
Provided below are standard protocols that you may find useful for product applications.

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

RM50 Antibody (C-term) - Images



RM50 Antibody (C-term) (Cat. #AP12930b) western blot analysis in MDA-MB435 cell line lysates (35ug/lane).This demonstrates the RM50 antibody detected the RM50 protein (arrow).



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RM50 Antibody (C-term) (Cat. #AP12930b)immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of RM50 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

RM50 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 putative 39S subunit protein and belongs to the L47P ribosomal protein family. Pseudogenes corresponding to this gene are found on chromosomes 2p, 2q, 5p, and 10q.

RM50 Antibody (C-term) - References

Humphray, S.J., et al. Nature 429(6990):369-374(2004)
Zhang, Z., et al. Genomics 81(5):468-480(2003)
Koc, E.C., et al. J. Biol. Chem. 276(47):43958-43969(2001)