

RM50 Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12930B**Specification**

RM50 Antibody (C-term) - Product Information

Application	WB, IHC-P,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

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

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**Cellular Location**

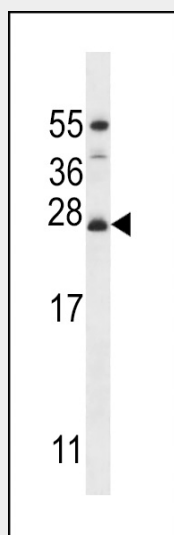
Mitochondrion

RM50 Antibody (C-term) - Protocols

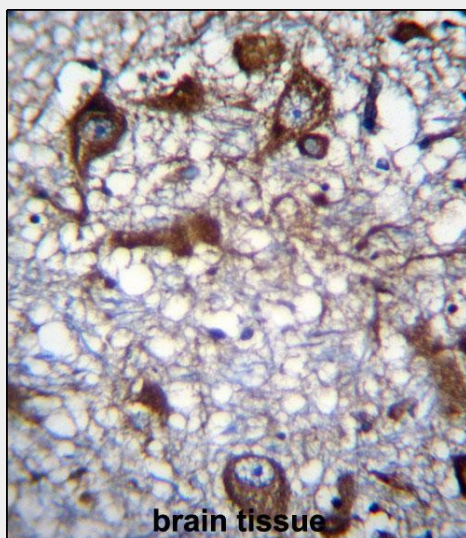
Provided below are standard protocols that you may find useful for product applications.

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



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)