

**MRPL54 Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP17698c****Specification**

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**MRPL54 Antibody (Center) - Product Information**

Application	WB,E
Primary Accession	<a href="#">Q6P161</a>
Other Accession	<a href="#">NP_758455.1</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	15819
Antigen Region	64-92

**MRPL54 Antibody (Center) - Additional Information****Gene ID** 116541**Other Names**

39S ribosomal protein L54, mitochondrial, L54mt, MRP-L54, MRPL54

**Target/Specificity**

This MRPL54 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 64-92 amino acids from the Central region of human MRPL54.

**Dilution**

WB~~1:1000

**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**

MRPL54 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**MRPL54 Antibody (Center) - Protein Information****Name** MRPL54**Cellular Location**

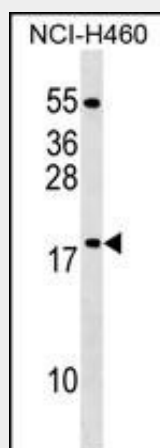
Mitochondrion

## MRPL54 Antibody (Center) - 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](#)

## MRPL54 Antibody (Center) - Images



MRPL54 Antibody (Center) (Cat. #AP17698c) western blot analysis in NCI-H460 cell line lysates (35ug/lane). This demonstrates the MRPL54 antibody detected the MRPL54 protein (arrow).

## MRPL54 Antibody (Center) - 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. [provided by RefSeq].

## MRPL54 Antibody (Center) - References

Lamesch, P., et al. Genomics 89(3):307-315(2007)  
Zhang, Z., et al. Genomics 81(5):468-480(2003)  
Koc, E.C., et al. J. Biol. Chem. 276(47):43958-43969(2001)  
Adams, M.D., et al. Nature 377 (6547 SUPPL), 3-174 (1995) :