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MRPL54 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17698c

Product Information

Application	WB, E
Primary Accession	Q6P161
Other Accession	NP_758455.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB37722
Calculated MW	15819
Antigen Region	64-92

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

Protein Information

Name	MRPL54
Cellular Location	Mitochondrion

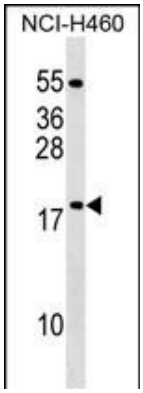
Background

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].

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) :

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).