10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

MRPL40 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP18646b

Product Information

Application	WB, E
Primary Accession	Q9NQ50
Other Accession	NP_003767.2
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB37341
Calculated MW	24490
Antigen Region	172-200

Additional Information

Gene ID	64976
Other Names	39S ribosomal protein L40, mitochondrial, L40mt, MRP-L40, Nuclear localization signal-containing protein deleted in velocardiofacial syndrome, Up-regulated in metastasis, MRPL40, NLVCF, URIM
Target/Specificity	This MRPL40 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 172-200 amino acids from the C-terminal region of human MRPL40.
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	MRPL40 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	MRPL40
Synonyms	NLVCF, URIM

Cellular Location Mitochondrion

Tissue Location Ubiquitous..

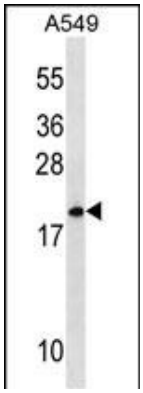
Background

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. Deletions in this gene may contribute to the etiology of velo-cardio-facial syndrome and DiGeorge syndrome.

References

Collins, J.E., et al. Genome Biol. 5 (10), R84 (2004) :
Zhang, Z., et al. Genomics 81(5):468-480(2003)
Kenmochi, N., et al. Genomics 77 (1-2), 65-70 (2001) :
Hildebrandt, T., et al. Anticancer Res. 19 (1A), 525-530 (1999) :
Goldschmidt-Reisin, S., et al. J. Biol. Chem. 273(52):34828-34836(1998)

Images



MRPL40 Antibody (C-term) (Cat. #AP18646b) western blot analysis in A549 cell line lysates (35ug/lane).This demonstrates the MRPL40 antibody detected the MRPL40 protein (arrow).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.