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

MRPS31 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP18737c

Product Information

Application	WB, E
Primary Accession	Q92665
Other Accession	NP_005821.2
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB37345
Calculated MW	45318
Antigen Region	219-247

Additional Information

Gene ID	10240
Other Names	28S ribosomal protein S31, mitochondrial, MRP-S31, S31mt, Imogen 38, MRPS31, IMOGN38
Target/Specificity	This MRPS31 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 219-247 amino acids from the Central region of human MRPS31.
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	MRPS31 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	MRPS31
Synonyms	IMOGN38
Cellular Location	Mitochondrion.

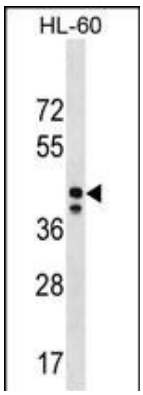
Background

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. The 28S subunit of the mammalian mitoribosome may play a crucial and characteristic role in translation initiation. This gene encodes a 28S subunit protein that has also been associated with type 1 diabetes; however, its relationship to the etiology of this disease remains to be clarified. Pseudogenes corresponding to this gene have been found on chromosomes 3 and 13. [provided by RefSeq].

References

Dunham, A., et al. Nature 428(6982):522-528(2004)
Zhang, Z., et al. Genomics 81(5):468-480(2003)
Tchernev, V.T., et al. Mol. Med. 8(1):56-64(2002)
Cavdar Koc, E., et al. J. Biol. Chem. 276(22):19363-19374(2001)

Images



MRPS31 Antibody (Center)(Cat. #AP18737c) western blot analysis in HL-60 cell line lysates (35ug/lane).This demonstrates the MRPS31 antibody detected the MRPS31 protein (arrow).