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# MRPS31 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP18737c

## Product Information

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|---|---|
| **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

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|---|---|
| **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

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|---|---|
| **Name** | MRPS31 |
| **Synonyms** | IMOGN38 |
| **Cellular Location** | Mitochondrion. |

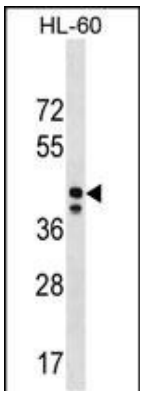
## Background

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).

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