

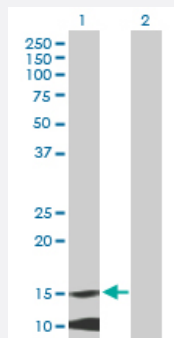
MaxPab®

MRPL42 purified MaxPab mouse polyclonal antibody (B01P)

Catalog # H00028977-B01P

Size 50 ug

Applications



Western Blot (Transfected lysate)

Western Blot analysis of MRPL42 expression in transfected 293T cell line ([H00028977-T01](#)) by MRPL42 MaxPab polyclonal antibody.

Lane 1: MRPL42 transfected lysate(15.62 KDa).

Lane 2: Non-transfected lysate.

Specification

| | |
|-------------------------------|--|
| Product Description | Mouse polyclonal antibody raised against a full-length human MRPL42 protein. |
| Immunogen | MRPL42 (NP_054769.1, 1 a.a. ~ 142 a.a) full-length human protein. |
| Sequence | MAVAAVKWVMSKRTILKHLFPVQNGALYCVCHKSTYSPLPDDYNCNVELALTS DGRITVCYHPSV DIPYEHTKPIRPDPVHNNEETHDQVLKTRLEEKVEHLEEGPMIEQLSKMFFTTKHRWYPHGRYHR CRKNLNPPKDR |
| Host | Mouse |
| Reactivity | Human |
| Interspecies Antigen Sequence | Mouse (76); Rat (73) |
| Quality Control Testing | Antibody reactive against mammalian transfected lysate. |
| Storage Buffer | In 1x PBS, pH 7.4 |
| Storage Instruction | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing. |

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[Protocol Download](#)

Gene Info — MRPL42

Entrez GeneID [28977](#)

GeneBank Accession# [NM_014050.2](#)

Protein Accession# [NP_054769.1](#)

Gene Name MRPL42

Gene Alias HSPC204, MRP-L31, MRPL31, MRPS32, PTD007, RPML31

Gene Description mitochondrial ribosomal protein L42

Gene Ontology [Hyperlink](#)

Gene Summary

Mammalian mitochondrial ribosomal proteins are encoded by nuclear genes and help in protein synthesis within the mitochondrion. Mitochondrial ribosomes (mitoribosomes) consist of a small 28 S 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 protein identified as belonging to both the 28S and the 39S subunits. Further experiments will be needed to identify the specific subunit localization. Sequence analysis identified three transcript variants that encode two different isoforms. Pseudogenes corresponding to this gene are found on chromosomes 4q, 6p, 6q, 7p, and 15q. [provided by RefSeq]

Other Designations mitochondrial ribosomal protein S32

Disease

- [Diabetes Mellitus](#)