

MRPL42 Antibody
Purified Mouse Monoclonal Antibody
Catalog # A02316a**Specification****MRPL42 Antibody - Product Information**

Application	E, WB, FC, IHC
Primary Accession	O9Y6G3
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	16.6kDa KDa

Description

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 protein identified as belonging to both the 28S and the 39S subunits. Alternative splicing results in multiple transcript variants. Pseudogenes corresponding to this gene are found on chromosomes 4q, 6p, 6q, 7p, and 15q.

Immunogen

Purified recombinant fragment of human MRPL42 (AA: 10-142) expressed in E. Coli.

Formulation

Purified antibody in PBS with 0.05% sodium azide

MRPL42 Antibody - Additional Information

Gene ID 28977

Other Names

39S ribosomal protein L42, mitochondrial, L42mt, MRP-L42, 28S ribosomal protein S32, mitochondrial, MRP-S32, S32mt, 39S ribosomal protein L31, mitochondrial, L31mt, MRP-L31, MRPL42, MRPL31, MRPS32, RPML31

Dilution

E~~1/10000
WB~~1/500 - 1/2000
FC~~1/200 - 1/400
IHC~~1/200 - 1/1000

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

MRPL42 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

MRPL42 Antibody - Protein Information

Name MRPL42

Synonyms MRPL31, MRPS32, RPML31

Cellular Location

Mitochondrion

MRPL42 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)