

Product Name: MRPL42 Mouse Monoclonal Antibody

Catalog #: AMM83079

For research use only.

Summary

Description Mouse monoclonal Antibody

Host Mouse

Application WB,IHC,ELISA,FC

Reactivity Human

ConjugationUnconjugatedModificationUnmodifiedIsotypeMouse IgG1ClonalityMonoclonalFormLiquid

Concentration 1mg/ml

Storage Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.

Shipping Ice bags

Buffer Purified antibody in PBS with 0.05% sodium azide

Purification Affinity Purification

Application

Dilution Ratio WB 1:500-1:2000,IHC 1:200-1:1000,ELISA 1:5000-1:20000,FC 1:200-1:400

Molecular Weight 16.6kDa

Antigen Information

Gene Name MRPL42

L31MT; L42MT; S32MT; MRPL31; MRPS32; PTD007; RPML31; HSPC204; MRP-L31; MRP-L42;

Alternative Names
MRP-S32

 Gene ID
 28977.0

 SwissProt ID
 Q9Y6G3

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

Background

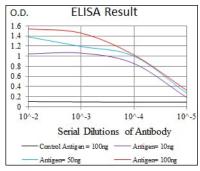
Mammalian mitochondrial ribosomal proteins are encoded by nuclear genes and help in protein synthesis within the mitochondrion. Mitochondrial ribosomes (mitoribosomes) consist of a small 28S subunit and a large 39S subunit. They have an



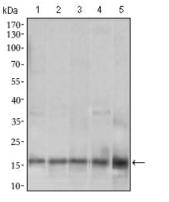
estimated 75% protein to rRNA composition compared to prokaryotic ribosomes, where this ratio is reversed. Another difference between mammalian mitoribosomes and prokaryotic ribosomes is that the latter contain a 5S rRNA. Among different species, the proteins comprising the mitoribosome differ greatly in sequence, and sometimes in biochemical properties, which prevents easy recognition by sequence homology. This gene encodes a 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.

Research Area

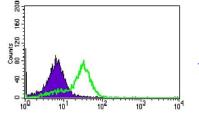
Image Data



Black line: Control Antigen (100 ng); Purple line: Antigen(10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng);



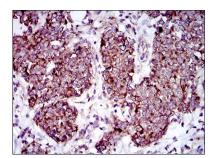
Western blot analysis using MRPL42 mouse mAb against HL7702 (1), SMMC-7721 (2), HEK293 (3), HeLa (4) and Raji (5) cell lysate.



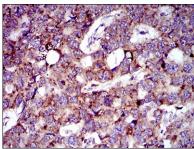
Flow cytometric analysis of HepG2 cells using MRPL42 mouse mAb (green) and negative control (purple).

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Immunohistochemical analysis of paraffin-embedded human breast cancer tissues using MRPL42 mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded human esophageal cancer tissues using MRPL42 mouse mAb with DAB staining.