

# MRPL21 Rabbit pAb

Catalog No.: A24785

## Basic Information

### Observed MW

Refer to figures

### Calculated MW

13kDa/22kDa

### Category

Primary antibody

### Applications

ELISA, WB, IHC-P

### Cross-Reactivity

Human

## 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 39S subunit protein. Multiple transcript variants encoding different isoforms were identified through sequence analysis although some may be subject to nonsense-mediated decay (NMD).

## Recommended Dilutions

WB	1:500 - 1:1000
IHC-P	1:50 - 1:200

## Immunogen Information

### Gene ID

219927

### Swiss Prot

Q7Z2W9

### Immunogen

A synthetic peptide corresponding to a sequence within amino acids 40-140 of human MRPL21(NP\_852615.1).

### Synonyms

MRPL21; L21mt; MRP-L21; mitochondrial ribosomal protein L21

## Contact

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## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

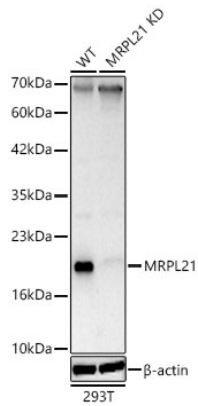
Affinity purification

### Storage

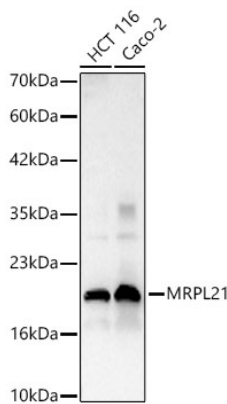
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.05% proclin300, 50% glycerol, pH7.3.

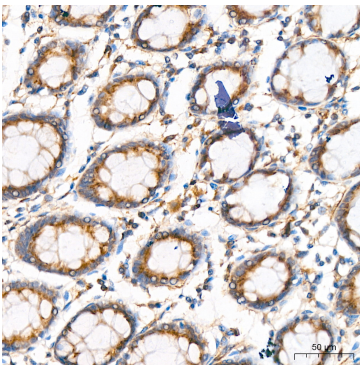
## Validation Data



Western blot analysis of lysates from wild type (WT) and MRPL21 knockdown (KD) 293T cells using MRPL21 Rabbit pAb (A24785) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 90s.



Western blot analysis of various lysates using MRPL21 Rabbit pAb (A24785) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates / proteins: 25 µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 90s.



Immunohistochemistry analysis of MRPL21 in paraffin-embedded human colon tissue using [KD Validated] MRPL21 Rabbit pAb (A24785) at a dilution of 1:100 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.