

# MRPL12 Rabbit Polyclonal Antibody



CAB8318

## Product Information

### Size:

20uL, 50uL, 100uL, 200uL

### Observed MW:

21kDa

### Calculated MW:

21kDa

### Applications:

WB IHC

### Reactivity:

Human

## Protein 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 which forms homodimers. In prokaryotic ribosomes, two L7/L12 dimers and one L10 protein form the L8 protein complex.

## Immunogen information

### Gene ID:

6182

### Uniprot

P52815

## Antibody Information

### Recommended dilutions:

WB 1:500 - 1:2000 IHC 1:50  
- 1:100

### Source:

Rabbit

### Isotype:

IgG

### Purification:

Affinity purification

### Synonyms:

MRPL12; 5c5-2; L12mt; MRP-L31/34; MRPL7; MRPL7/L12; RPML12

### Immunogen:

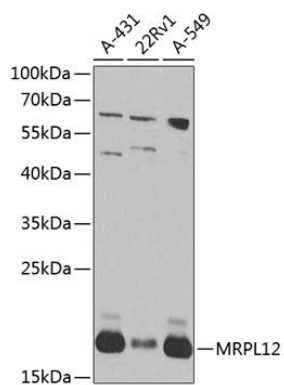
Recombinant fusion protein containing a sequence corresponding to amino acids 1-198 of human MRPL12 (NP\_002940.2).

### Storage:

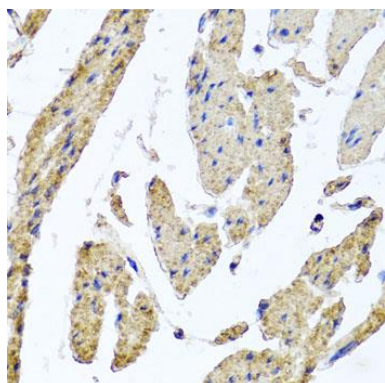
Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

## Product Images

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Western blot analysis of extracts of various cell lines, using MRPL12 antibody (CAB8318) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (CABS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (CABM00020). Exposure time: 15s.



Immunohistochemistry of paraffin-embedded human esophageal smooth muscle using MRPL12 antibody (CAB8318) at dilution of 1:100 (40x lens).