

**MRPL28 Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP19152a**

**Specification**

---

**MRPL28 Antibody (N-term) - Product Information**

Application	IF, WB,E
Primary Accession	<a href="#">O13084</a>
Other Accession	<a href="#">NP_006419.2</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	30157
Antigen Region	28-55

**MRPL28 Antibody (N-term) - Additional Information**

**Gene ID** 10573

**Other Names**

39S ribosomal protein L28, mitochondrial, L28mt, MRP-L28, Melanoma antigen p15, Melanoma-associated antigen recognized by T-lymphocytes, MRPL28, MAAT1

**Target/Specificity**

This MRPL28 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 28-55 amino acids from the N-terminal region of human MRPL28.

**Dilution**

IF~~1:10~50  
WB~~1:1000

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

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

**Precautions**

MRPL28 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**MRPL28 Antibody (N-term) - Protein Information**

**Name** MRPL28

## Synonyms MAAT1

## Cellular Location

Mitochondrion

## Tissue Location

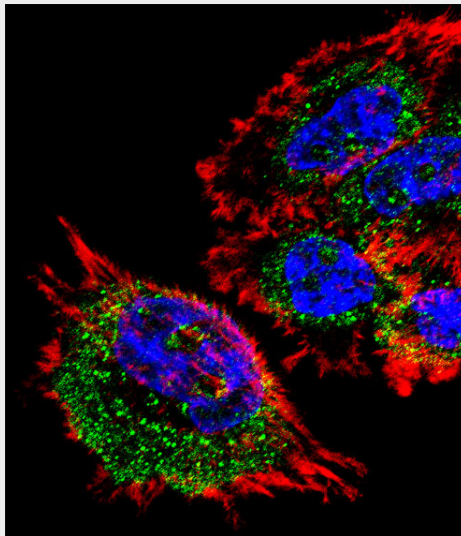
Found in a variety of normal tissues including spleen, testes, thymus, liver, kidney, brain, adrenal, lung and retinal tissue

## MRPL28 Antibody (N-term) - Protocols

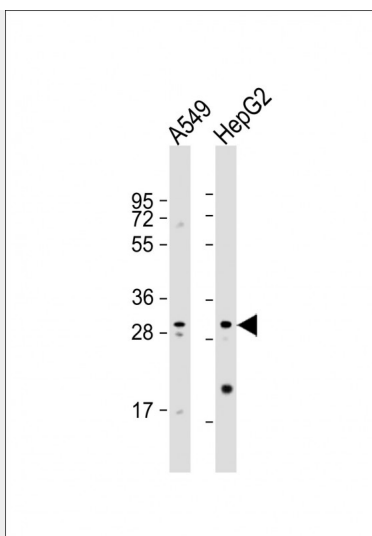
Provided below are standard protocols that you may find useful for product applications.

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

## MRPL28 Antibody (N-term) - Images



Fluorescent confocal image of A431 cell stained with MRPL28 Antibody (N-term)(Cat#AP19152a).A431 cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then incubated with MRPL28 primary antibody (1:25, 1 h at 37°C). For secondary antibody, Alexa Fluor® 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37°C).Cytoplasmic actin was counterstained with Alexa Fluor® 555 (red) conjugated Phalloidin (7units/ml, 1 h at 37°C). Nuclei were counterstained with DAPI (blue) (10 µg/ml, 10 min). MRPL28 immunoreactivity is localized to Mitochondria significantly.



All lanes : Anti-MRPL28 Antibody (N-term) at 1:1000 dilution Lane 1: A549 whole cell lysate Lane 2: HepG2 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 30 kDa Blocking/Dilution buffer: 5% NFDN/TBST.

#### **MRPL28 Antibody (N-term) - 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, a part of which was originally isolated by its ability to recognize tyrosinase in an HLA-A24-restricted fashion.

#### **MRPL28 Antibody (N-term) - References**

- Lamesch, P., et al. *Genomics* 89(3):307-315(2007)
- Martin, J., et al. *Nature* 432(7020):988-994(2004)
- Zhang, Z., et al. *Genomics* 81(5):468-480(2003)
- Koc, E.C., et al. *J. Biol. Chem.* 276(47):43958-43969(2001)
- Kenmochi, N., et al. *Genomics* 77 (1-2), 65-70 (2001) :