

For Research Use Only

# MRPS27 Polyclonal antibody

Catalog Number: 17280-1-AP

Featured Product

29 Publications



## Basic Information

**Catalog Number:**

17280-1-AP

**Size:**

150ul, Concentration: 550 ug/ml by Nanodrop and 353 ug/ml by Bradford method using BSA as the standard;

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG11047

**GenBank Accession Number:**

BC030521

**GeneID (NCBI):**

23107

**UNIPROT ID:**

Q92552

**Full Name:**

mitochondrial ribosomal protein S27

**Calculated MW:**

168 aa, 19 kDa, 48 kDa

**Observed MW:**

48 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:500-1:2000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

IF/ICC 1:200-1:800

## Applications

**Tested Applications:**

WB, IHC, IF/ICC, IP, ELISA

**Cited Applications:**

WB, IF

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human, mouse

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

WB : A431 cells,

IP : A431 cells,

IHC : mouse brain tissue,

IF/ICC : HepG2 cells,

## Background Information

Genes encoding PPR (pentatricopeptide repeat)-containing proteins constitute one of the largest gene families in plants. The majority of these proteins are predicted to target organelles and to bind to RNA. Strikingly, there is a dearth of these proteins in mammals, although genomic searches reveal six candidates, all of which are also predicted to target the mitochondrion. One of these proteins, MRPS27 is participated in transcription and translation respectively. [PMID:18939947] MRPS27 is a component of the small subunit of the mitochondrial ribosome that is encoded by the nuclear genome [PMID: 11279123].

## Notable Publications

Author	Pubmed ID	Journal	Application
Uwe Richter	30262910	Nat Commun	WB
Marie Bisconti	36120567	Front Cell Dev Biol	IF
Uwe Richter	26504172	J Cell Biol	WB

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

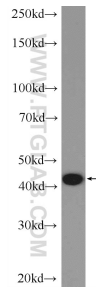
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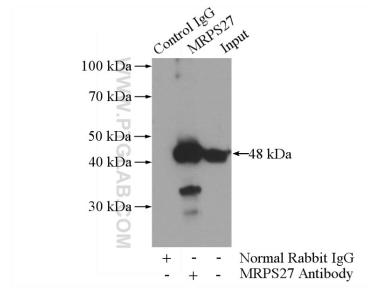
E: proteintech@ptglab.com  
W: ptglab.com

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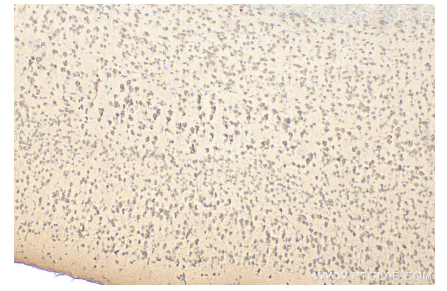
## Selected Validation Data



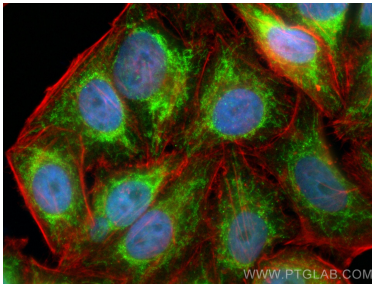
A431 cells were subjected to SDS PAGE followed by western blot with 17280-1-AP (MRPS27 Antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



IP result of anti-MRPS27 (IP:17280-1-AP, 3ug; Detection:17280-1-AP 1:1000) with A431 cells lysate 1520ug.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 17280-1-AP (MRPS27 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using MRPS27 antibody (17280-1-AP) at dilution of 1:400 and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-phalloidin (red).