

For Research Use Only

# RPL24 Polyclonal antibody

Catalog Number: 17082-1-AP

Featured Product

17 Publications



## Basic Information

### Catalog Number:

17082-1-AP

### Size:

150ul, Concentration: 450 ug/ml by Nanodrop and 300 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG7085

### GenBank Accession Number:

BC000690

### GeneID (NCBI):

6152

### UNIPROT ID:

P83731

### Full Name:

ribosomal protein L24

### Calculated MW:

18 kDa

### Observed MW:

21-23 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:5000-1:50000

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

IHC 1:50-1:500

IF/ICC 1:10-1:100

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IHC, IF, IP, RIP

### Species Specificity:

human

### Cited Species:

human, mouse, xenopus

### Positive Controls:

WB : A549 cells, HEK-293 cells, Jurkat cells

IP : HEK-293 cells,

IHC : human placenta tissue, human kidney tissue, human liver tissue, human spleen tissue, human ovary tissue

IF/ICC : Hela cells,

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

## Background Information

The mammalian ribosome comprises 79 ribosomal proteins and four rRNAs, which combine in equimolar ratios to form the small (40S) and large (60S) subunits. Ribosome proteins are a direct and critical target of the PI3K pathway in promoting growth.[PMID:15289434]. RPL24 is one component of the large (60S) subunits that promote the translation of uORF-containing mRNAsgene The mutation in Rpl24 result in impairment of mRNA splicing and L24 production, which in turn affects ribosome biogenesis, protein synthesis and the cell cycle. PMID:20799971]. Also RPL24 (ribosomal protein L24) is a key factor for translation reinitiation of downstream ORFs on the polycistronic cauliflower mosaic virus 35S RNA transcription unit, and may have a role in gynoecium development. [PMID:15270688]

## Notable Publications

Author	Pubmed ID	Journal	Application
Kaosheng Lv	33711283	Cell Stem Cell	WB
Roberta Cagnetta	30008298	Neuron	IF
Sridevi Challa	34314702	Cell	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

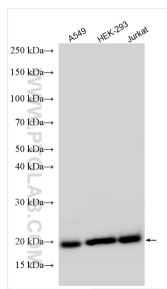
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

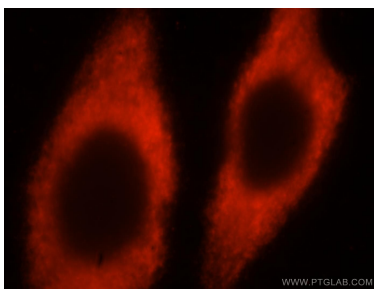
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

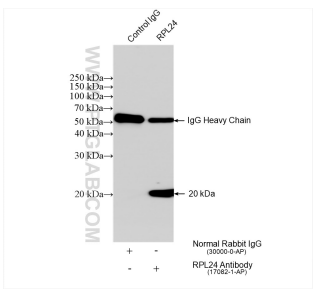
Selected Validation Data



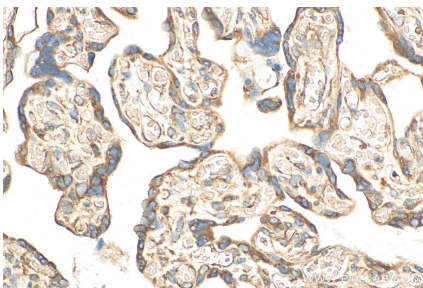
Various lysates were subjected to SDS PAGE followed by western blot with 17082-1-AP (RPL24 antibody) at dilution of 1:30000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of HeLa cells, using RPL24 antibody 17082-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



IP result of anti-RPL24 (IP:17082-1-AP, 4ug; Detection:17082-1-AP 1:20000) with HEK-293 cells lysate 920 ug.



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 17082-1-AP (RPL24 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).