

For Research Use Only

# RPL24 Polyclonal antibody

Catalog Number: 17082-1-AP

Featured Product

13 Publications



## Basic Information

**Catalog Number:**

17082-1-AP

**Size:**

150ul, Concentration: 450 µg/ml by Nanodrop and 300 µg/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 1:10-1:100

## Applications

**Tested Applications:**

IF, IHC, IP, WB, ELISA

**Cited Applications:**

WB, RIP, IP, IHC, IF

**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 : 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 gynocium 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

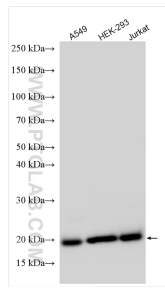
For technical support and original validation data for this product please contact:

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

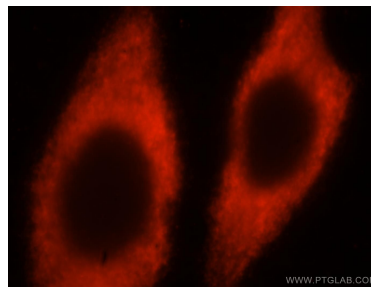
E: proteintech@ptglab.com  
W: ptglab.com

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

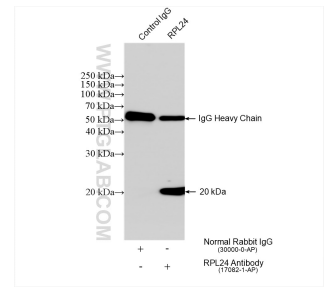
## Selected Validation Data



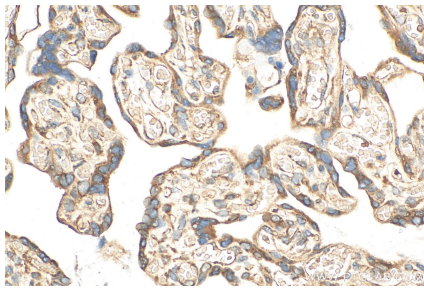
Various lysates were subjected to SDS PAGE followed by western blot with 17082-1-AP (RPL24 antibody) at dilution of 1:30000 incubated at room temperature for 1.5 hours.



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).