

For Research Use Only

# RPL7 Polyclonal antibody

Catalog Number: 14583-1-AP

12 Publications



## Basic Information

### Catalog Number:

14583-1-AP

### Size:

1000  $\mu$ g/ml

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG6104

### GenBank Accession Number:

BC006095

### GeneID (NCBI):

6129

### UNIPROT ID:

P18124

### Full Name:

ribosomal protein L7

### Calculated MW:

29 kDa

### Observed MW:

29-30 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:3000

IP 0.5-4.0  $\mu$ g for 1.0-3.0 mg of total protein lysate

IHC 1:20-1:200

IF/ICC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IHC, IF, RIP

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat

**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 : HEK-293 cells, mouse kidney tissue

IP : HEK-293 cells,

IHC : human skin cancer tissue,

IF/ICC : HEK-293 cells,

## 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]. RPL7 binds to G-rich structures in 28S rRNA, and plays a regulatory role in the translation apparatus, inhibits cell-free translation of mRNAs. In addition, RPL7 is suggested to have a role as an integral part of natural freeze tolerance[PMID: 18706984]. Besides, RPL7 is responsible for its normal ribosome functions including the nuclear targeting, ribosome assembly and translation[PMID:17258209].

## Notable Publications

Author	Pubmed ID	Journal	Application
Baiwen Chen	34735883	Biochem Biophys Res Commun	WB, RIP
Phaedra R Theodoridis	33568529	Proc Natl Acad Sci U S A	IHC
Rui Su	35145225	Nat 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

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

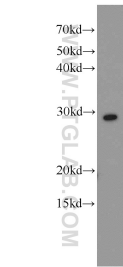
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

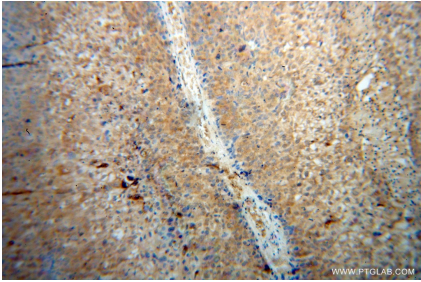
W: [ptgcn.com](http://ptgcn.com)

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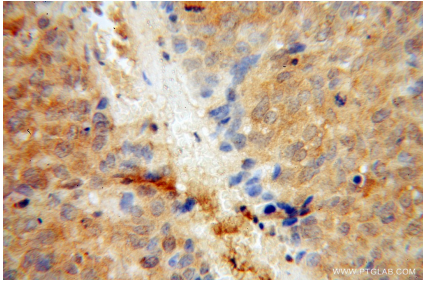
Selected Validation Data



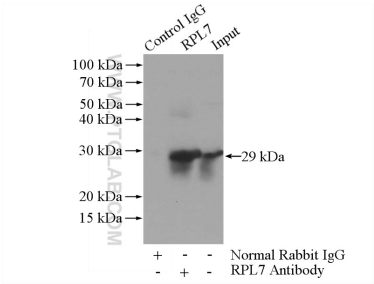
HEK-293 cells were subjected to SDS PAGE followed by western blot with 14583-1-AP (RPL7 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



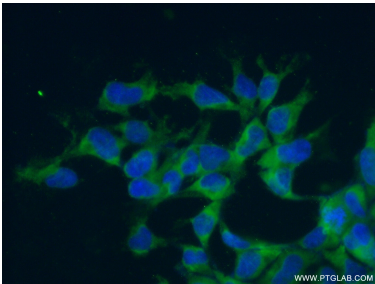
Immunohistochemical analysis of paraffin-embedded human skin cancer using 14583-1-AP (RPL7 antibody) at dilution of 1:100 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human skin cancer using 14583-1-AP (RPL7 antibody) at dilution of 1:100 (under 40x lens).



IP result of anti-RPL7 (IP:14583-1-AP, 3ug; Detection:14583-1-AP 1:1000) with HEK-293 cells lysate 880ug.



Immunofluorescent analysis of (4% PFA) fixed HEK-293 cells using 14583-1-AP (RPL7 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated Goat Anti-Rabbit IgG(H+L).