

For Research Use Only

RPL23 Polyclonal antibody

Catalog Number: 16086-1-AP

Featured Product

17 Publications



Basic Information

Catalog Number:

16086-1-AP

Size:

550 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG9120

GenBank Accession Number:

BC010114

GeneID (NCBI):

9349

UNIPROT ID:

P62829

Full Name:

ribosomal protein L23

Calculated MW:

140 aa, 15 kDa

Observed MW:

15 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

IHC 1:50-1:500

Applications

Tested Applications:

IHC, WB, ELISA

Cited Applications:

WB, IF, RIP, IHC

Species Specificity:

human, mouse, rat

Cited Species:

human, rat, 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 : BxPC-3 cells, PC-3 cells, Jurkat cells, NIH/3T3 cells

IHC : human brain tissue,

Background Information

Ribosomes, the organelles that catalyze protein synthesis, consist of a small 40S subunit and a large 60S subunit. Together these subunits are composed of 4 RNA species and approximately 80 structurally distinct proteins [PMID:9582194]. RPL23 is a component of the 60 S large ribosomal subunit that interacts functionally with murine double minute 2 protein (MDM2 or HDM2 in humans). Upon binding to MDM2, RPL23 inhibits MDM2-mediated p53 degradation, thus activating p53 and inducing cellular apoptosis [PMID:15314174]. Intriguingly, RPL23 has also been suggested to be a negative regulator of apoptosis by suppressing the Miz1-induced transcription of the cell cycle inhibitors p15INK4B and p21CIP1 [PMID:19160485].

Notable Publications

| Author | Pubmed ID | Journal | Application |
|----------------------|-----------|---------|-------------|
| Wong Chi C CC | 21803848 | Blood | WB |
| Yuekun Qi | 28539603 | Sci Rep | WB,IHC |
| Harrison Tudor Evans | 31118249 | EMBO J | IF |

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:

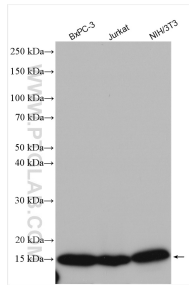
T: 4006900926

E: Proteintech-CN@ptglab.com

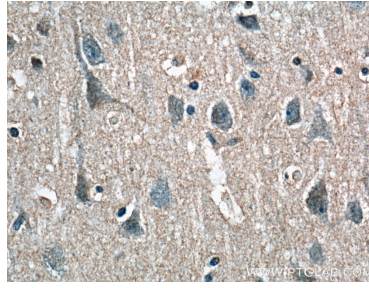
W: ptgcn.com

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

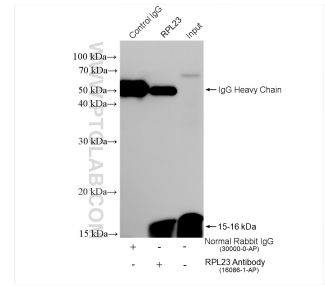
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 16086-1-AP (RPL23 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human brain tissue slide using 16086-1-AP (RPL23 Antibody) at dilution of 1:200 (under 40x lens).



IP result of anti-RPL23 (IP:16086-1-AP, 4ug; Detection:16086-1-AP 1:3000) with mouse brain tissue lysate 1680 ug.