

For Research Use Only

RPL23 Polyclonal antibody

Catalog Number: 16086-1-AP

Featured Product

20 Publications



Basic Information

Catalog Number:

16086-1-AP

Size:

150ul, Concentration: 550 ug/ml by Nanodrop;

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

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

IHC: 1:50-1:500

Applications

Tested Applications:

WB, IP, IHC, 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: BxPC-3 cells, PC-3 cells, Jurkat cells, NIH/3T3 cells

IP: mouse brain tissue,

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, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

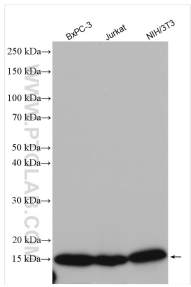
For technical support and original validation data for this product please contact:

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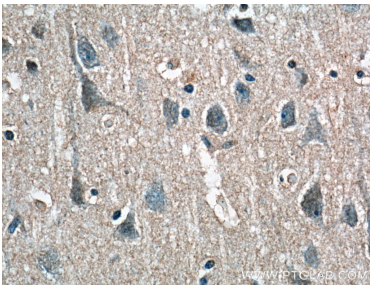
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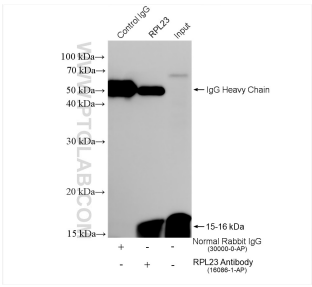
Selected Validation Data



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.