

**RPL23A Antibody (C-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP1939b**

**Specification**

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**RPL23A Antibody (C-term) - Product Information**

Application	WB, IHC-P,E
Primary Accession	<a href="#">P62750</a>
Other Accession	<a href="#">P62752</a> , <a href="#">P62751</a> , <a href="#">Q24JY1</a> , <a href="#">G1SE76</a>
Reactivity	Human, Mouse, Rat
Predicted	Bovine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	111-140

**RPL23A Antibody (C-term) - Additional Information**

**Gene ID** 6147

**Other Names**

60S ribosomal protein L23a, RPL23A

**Target/Specificity**

This RPL23A antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 111-140 amino acids from the C-terminal region of human RPL23A.

**Dilution**

WB~~1:2000

IHC-P~~1:100

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

RPL23A Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**RPL23A Antibody (C-term) - Protein Information**

**Name** RPL23A

**Function** Component of the large ribosomal subunit (PubMed:[23636399](#), PubMed:[32669547](#)). The

ribosome is a large ribonucleoprotein complex responsible for the synthesis of proteins in the cell (PubMed:[23636399](#), PubMed:[32669547](#)). Binds a specific region on the 26S rRNA (PubMed:[23636399](#), PubMed:[32669547](#)). May promote p53/TP53 degradation possibly through the stimulation of MDM2-mediated TP53 polyubiquitination (PubMed:[26203195](#)).

#### Cellular Location

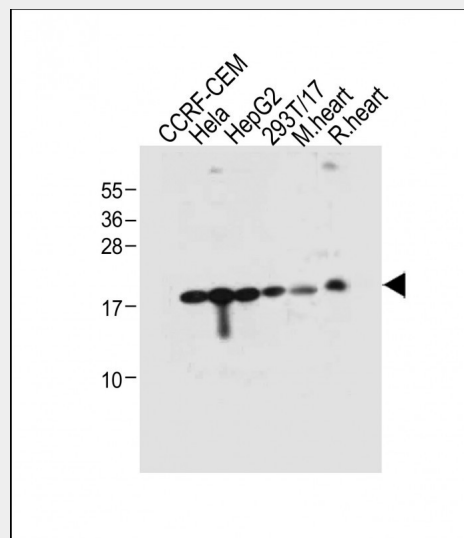
Cytoplasm. Nucleus Note=Although RPL23A is functional within the cytoplasm, the assembly of ribosomal subunits occurs in the nucleus. RPL23A nuclear import is mediated by IPO5/RanBP5, IPO7/RanBP7, KPNB1/importin-beta or TPNO1/Trn

#### RPL23A Antibody (C-term) - Protocols

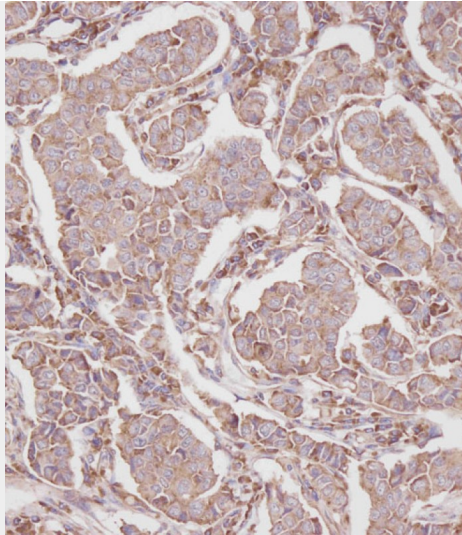
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

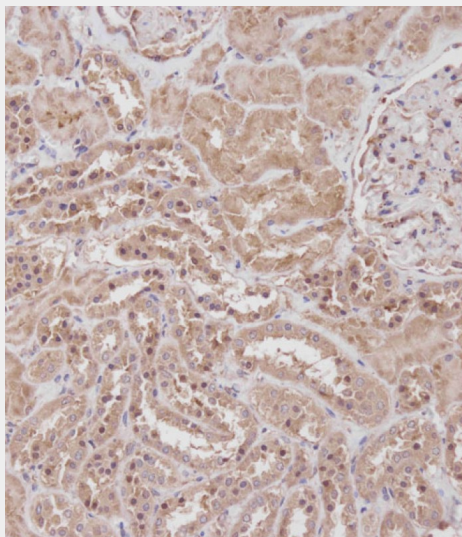
#### RPL23A Antibody (C-term) - Images



All lanes : Anti-RPL23A Antibody (C-term) at 1:2000 dilution Lane 1: CCRF-CEM whole cell lysate Lane 2: HeLa whole cell lysate Lane 3: HepG2 whole cell lysate Lane 4: 293T/17 whole cell lysate Lane 5: Mouse heart tissue lysate Lane 6: Rat heart tissue lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 18 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Immunohistochemical analysis of AP1939B on paraffin-embedded Human breast carcinoma tissue. Tissue was fixed with formaldehyde at room temperature. Heat induced epitope retrieval was performed by EDTA buffer (pH9. 0). Samples were incubated with primary antibody(1:100) for 1 hour at room temperature. Undiluted CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.



Immunohistochemical analysis of AP1939B on paraffin-embedded Human kidney tissue. Tissue was fixed with formaldehyde at room temperature. Heat induced epitope retrieval was performed by EDTA buffer (pH9. 0). Samples were incubated with primary antibody(1:100) for 1 hour at room temperature. Undiluted CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.

### **RPL23A Antibody (C-term) - Background**

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. RPL23A is a ribosomal protein that is a component of the 60S subunit. The protein belongs to the L23P family of ribosomal proteins. It is located in the cytoplasm. The protein may be one of the target molecules involved in mediating growth inhibition by interferon. In yeast, the corresponding protein binds to a specific site on the 26S rRNA. This gene is co-transcribed with the U42A, U42B, U101A, and U101B small nucleolar RNA genes, which are located in its third, first, second, and fourth introns, respectively.

**RPL23A Antibody (C-term) - References**

Uechi, T., et al., Genomics 72(3):223-230 (2001).  
Fan, W., et al., Genomics 46(2):234-239 (1997).  
Jiang, H., et al., Oncogene 14(4):473-480 (1997).  
Fan, W., et al., Immunogenetics 44(2):97-103 (1996).  
Wool, I.G., et al., Biochem. Cell Biol. 73 (11-12), 933-947 (1995).

**RPL23A Antibody (C-term) - Citations**

- [Tissue-specific expression of ribosomal protein paralogue eRpL22-like in Drosophila melanogaster eye development](#)
- [Functional interplay between ribosomal protein paralogues in the eRpL22 family in Drosophila melanogaster.](#)
- [Loss of Drosophila nucleostemin 2 \(NS2\) blocks nucleolar release of the 60S subunit leading to ribosome stress.](#)
- [Nucleolar stress in Drosophila melanogaster: RNAi-mediated depletion of Nopp140.](#)