**Basic Information**
- **Catalog Number:** 16086-1-AP
- **Source:** Rabbit
- **Isotype:** IgG
- **Purification Method:** Antigen affinity purification
- **Immunogen Catalog Number:** AG9120
- **GenBank Accession Number:** BC010114
- **GeneID (NCBI):** 9349
- **Full Name:** ribosomal protein L23
- **Calculated MW:** 140aa, 15 kDa
- **Observed MW:** 15 kDa
- **Recommended Dilutions:**
  - WB: 1:500-1:1000
  - IHC: 1:50-1:500

**Applications**
- **Tested Applications:** IHC, WB, ELISA
- **Cited Applications:** IF, IHC, WB
- **Species Specificity:** human, mouse, rat
- **Cited Species:** human, mouse, rat
- **Note:** suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

**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 60S 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**
<table>
<thead>
<tr>
<th>Author</th>
<th>PubMed ID</th>
<th>Journal</th>
<th>Application</th>
</tr>
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<tr>
<td>Wong Chi C CC</td>
<td>21903948</td>
<td>Blood</td>
<td>WB</td>
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<td>20539003</td>
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<td>Harrison Tudor Evans</td>
<td>31119249</td>
<td>EMBO J</td>
<td>IF</td>
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**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**

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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.
HeLa cells were subjected to SDS-PAGE followed by western blot with 16086-1-AP (RPL23 antibody) at a dilution of 1:200 incubated at room temperature for 1.5 hours.

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