## Basic Information

<table>
<thead>
<tr>
<th>Catalog Number: 10556-1-AP</th>
<th>GeneBank Accession Number: BC036494</th>
</tr>
</thead>
<tbody>
<tr>
<td>Source: Rabbit</td>
<td>Full Name: nucleolin</td>
</tr>
<tr>
<td>Isotype: IgG</td>
<td>Calculated MW: 76 kDa</td>
</tr>
<tr>
<td>Purification Method: Antigen affinity purification</td>
<td>Observed MW: 100-110 kDa</td>
</tr>
<tr>
<td>Immunogen Catalog Number: AG0859</td>
<td></td>
</tr>
</tbody>
</table>

### Recommended Dilutions:
- **WB**: 1:1000-1:4000
- **IP**: 0.5-4.0 μg for IP and 1:500-1:2000 for WB
- **IHC**: 1:50-1:500

### Applications
- **Tested Applications**: IHC, IP, WB, ELISA
- **Cited Applications**: IF, IHC, IP, WB

### Species Specificity:
- Human, mouse, rat
- **Cited Species**: Human, insect, mouse, rat

### Background Information

Nucleolin, also known as C23, involved in the control of transcription of ribosomal RNA (rRNA) genes by RNA polymerase I, in nucleocytoplasmic transportation of ribosomal components, and in ribosome maturation and assembly. It associated with intranuclear chromatin and pre-ribosomal particles, and induced chromatin decondensation by binding to histone H1. Also it has a role in the process of transcriptional elongation. Whilst mammalian nucleolin has a predicted molecular mass of approximately 77 kDa, the apparent molecular mass is between 100 and 110 kDa, and has been attributed to the amino acid composition of the N-terminal domain, which is highly phosphorylated. (PMID: 15925566)

### Notable Publications

<table>
<thead>
<tr>
<th>Author</th>
<th>Pubmed ID</th>
<th>Journal</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xing Yuna Y</td>
<td>21861704</td>
<td>Can J Microbiol</td>
<td>IF</td>
</tr>
<tr>
<td>Janis Bennion Callister</td>
<td>2779094</td>
<td>Hum Mut Genet</td>
<td>IF</td>
</tr>
<tr>
<td>Johnathan Cooper-Knock</td>
<td>25943887</td>
<td>Acta Neuropathol</td>
<td>IF</td>
</tr>
</tbody>
</table>

### Storage

- **Storage**: Store at -20°C. Stable for one year after shipment.
- **Storage Buffer**: PBS with 0.1% sodium azide and 50% glycerol pH 7.3.
- **Aliquoting**: Not necessary for -20°C storage.

---

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.
HEK-293 cells were subjected to SDS PAGE followed by western blot with 10556-1-AP(NCL antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.

Immunohistochemical of paraffin-embedded human prostate cancer using 10556-1-AP(NCL antibody) at dilution of 1:100 (under 40x lens).

IP Result of anti-NCL (IP: 10556-1-AP, 4ug; Detection: 10556-1-AP 1:1000) with HeLa cells lysate 3200ug.