NCL Polyclonal ANTIBODY

Catalog Number: 10556-1-AP

Basic Information

Catalog Number: 10556-1-AP
Size: 36 μg/150 μl
Source: Rabbit
Isotype: IgG
Purification Method: Antigen affinity purification
Immunogen Catalog Number: AG0859

GenBank Accession Number:
- BC00464
- 4691

Recommended Dilutions:
- WB: 1:1000-1:4000
- IP: 0.5-4.0 μg for IP and 1:100-1:2000 for WB
- IHC: 1:50-1:500

Immunogen

Calculated MW: 76 kDa
Observed MW: 100-110 kDa

Applications

Tested Applications:
- ELISA, IHC, IP, WB

Cited Applications:
- IF, IHC, IP, WB

Species Specificity:
- human, mouse, rat

Cited Species:
- human, insect, mouse, rat

Recommended Dilutions:
- WB: 1:1000-1:4000
- IP: 0.5-4.0 μg for IP and 1:100-1:2000 for WB
- IHC: 1:50-1:500

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 intranucleolar 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>21681764</td>
<td>Can J Microbiol</td>
<td>IF</td>
</tr>
<tr>
<td>Janis Bennion Callister</td>
<td>27799504</td>
<td>Hum Mut Gene</td>
<td>IF</td>
</tr>
<tr>
<td>Johnathan Cooper-Knock</td>
<td>25943857</td>
<td>Acta Neupathol</td>
<td>IF</td>
</tr>
</tbody>
</table>

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 is unnecessary 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.
Selected Validation Data

HEK293 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 (SP 10556-1-AP 4ug; Detection: 10556-1-AP 1:1000) with HeLa cells lysate 3200ug.