

For Research Use Only

# Nucleolin/C23 Polyclonal antibody

Catalog Number: 10556-1-AP

Featured Product

46 Publications



## Basic Information

### Catalog Number:

10556-1-AP

### Size:

150ul, Concentration: 750 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG0859

### GenBank Accession Number:

BC006494

### GeneID (NCBI):

4691

### UNIPROT ID:

P19338

### Full Name:

nucleolin

### Calculated MW:

76 kDa

### Observed MW:

100-110 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:5000-1:50000

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

IHC 1:50-1:500

IF/ICC 1:500-1:1500

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IHC, IF, IP, CoIP, RIP

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat, pig

**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 : HEK-293 cells, rat brain tissue, HeLa cells

IP : HeLa cells,

IHC : human prostate cancer tissue,

IF/ICC : HEK-293 cells,

## 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

Author	Pubmed ID	Journal	Application
Didi-Andreas Song	36180036	Mol Cell Proteomics	IF
Chunming Gu	36109490	Oncogenesis	WB,IHC,IF,IP
Ella Doron-Mandel	34515347	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

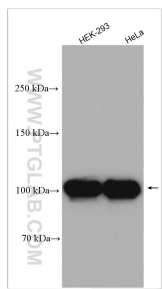
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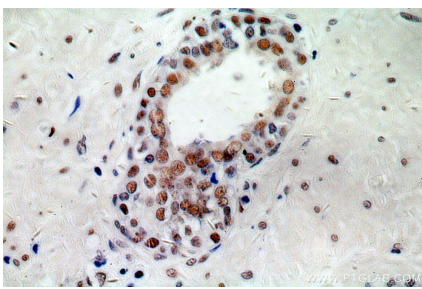
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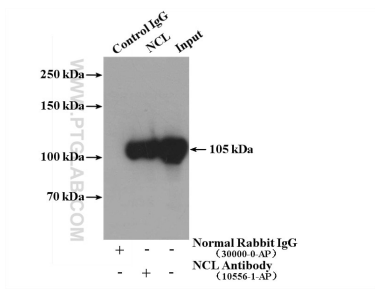
Selected Validation Data



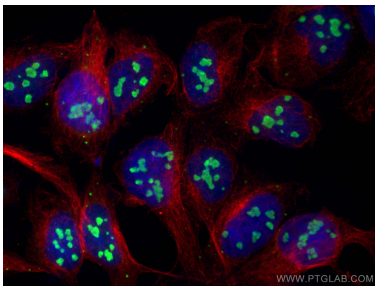
Various lysates were subjected to SDS PAGE followed by western blot with 10556-1-AP (Nucleolin/C23 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human prostate cancer using 10556-1-AP (Nucleolin/C23 antibody) at dilution of 1:100 (under 40x lens).



IP result of anti-Nucleolin/C23 (IP:10556-1-AP, 4ug; Detection:10556-1-AP 1:1000) with HeLa cells lysate 3200ug.



Immunofluorescent analysis of (4% PFA) fixed HEK-293 cells using NCL antibody (10556-1-AP) at dilution of 1:1500 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), Alpha Tubulin antibody (66031-1-Ig, Clone: 1E4C11, red).