

For Research Use Only

# NOLC1 Polyclonal antibody

Catalog Number: 11815-1-AP

Featured Product

10 Publications



## Basic Information

### Catalog Number:

11815-1-AP

### Size:

150ul, Concentration: 900 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG2382

### GenBank Accession Number:

BC006769

### GeneID (NCBI):

9221

### UNIPROT ID:

Q14978

### Full Name:

nucleolar and coiled-body phosphoprotein 1

### Calculated MW:

73 kDa

### Observed MW:

130 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:2000

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

IHC 1:50-1:500

IF/ICC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IHC, IF, IP

### Species Specificity:

human

### Cited Species:

human, mouse

**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: Jurkat cells, HEK-293 cells

IP: HeLa cells,

IHC: human colon cancer tissue,

IF/ICC: HepG2 cells,

## Background Information

Nucleolar and coiled-body phosphoprotein 1 (NOLC1) is a phosphoprotein that transiently associates with the mature nucleolar H/ACA and C/D box small nucleolar ribonucleoproteins (snoRNPs), guiding site-specific 2'-O-methylation and pseudouridylation of pre-rRNAs [PMID:21266110]. It contains a nuclear localization signal binding sequence and is thought to shuttle between the nucleolus and the cytoplasm. NOLC1 plays an essential role in the synthesis of rRNA and the biosynthesis of ribosomes [PMID:8972203].

## Notable Publications

Author	Pubmed ID	Journal	Application
Achim Werner	26399832	Nature	WB
Chandreyee Datta	36306353	Sci Adv	WB
Matthew T N Yarnall	36424489	Nat Biotechnol	IF

## 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

\*\*\* 20ul sizes contain 0.1% BSA

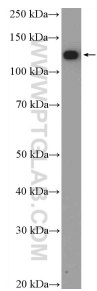
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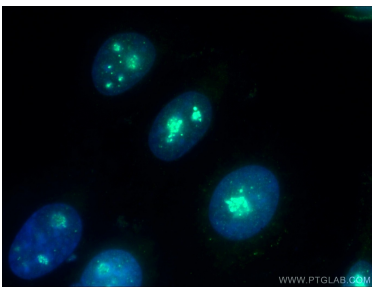
E: proteintech@ptglab.com  
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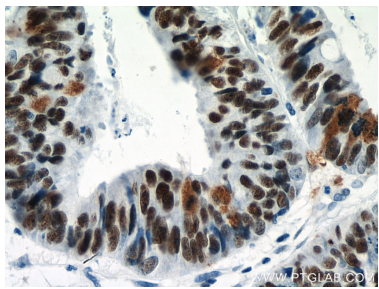
Selected Validation Data



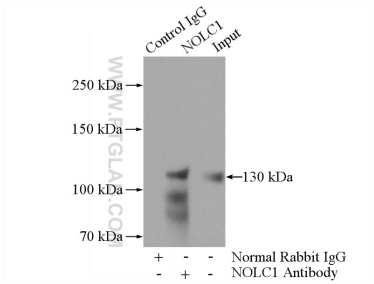
Jurkat cells were subjected to SDS PAGE followed by western blot with 11815-1-AP (NOLC1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 11815-1-AP (NOLC1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 11815-1-AP (NOLC1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-NOLC1 (IP:11815-1-AP, 4ug; Detection:11815-1-AP 1:500) with HeLa cells lysate 2000ug.