

For Research Use Only

# Nucleolin/C23 Recombinant antibody, PBS Only

Catalog Number: 83380-1-PBS



## Basic Information

<b>Catalog Number:</b> 83380-1-PBS	<b>GenBank Accession Number:</b> BC006494	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug , Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 4691	<b>CloneNo.:</b> 240029F8
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P19338	
<b>Isotype:</b> IgG	<b>Full Name:</b> nucleolin	
<b>Immunogen Catalog Number:</b> AG0859	<b>Calculated MW:</b> 76 kDa	
	<b>Observed MW:</b> 100-110 kDa	

## Applications

**Tested Applications:**  
WB, IHC, IF/ICC, FC (Intra), IP, Indirect ELISA

**Species Specificity:**  
human

## 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)

## Storage

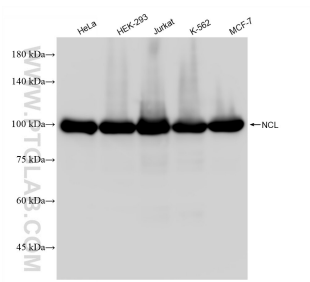
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS Only

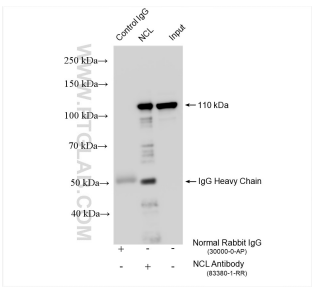
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

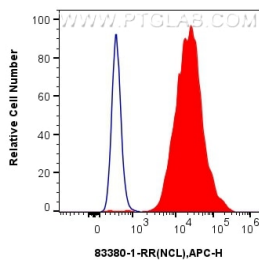
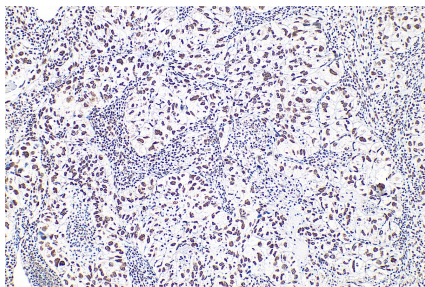
Selected Validation Data



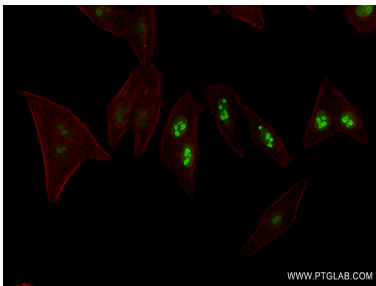
Various lysates were subjected to SDS PAGE followed by western blot with 83380-1-RR (Nucleolin/C23 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83380-1-PBS in a different storage buffer formulation.



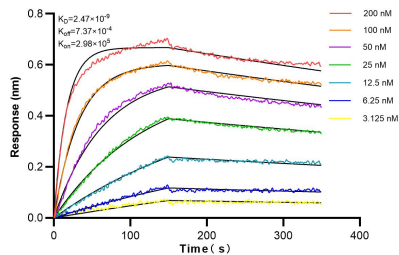
IP result of anti-Nucleolin/C23 (IP:83380-1-RR, 4ug; Detection:83380-1-RR 1:5000) with HeLa cells lysate 1085 ug. This data was developed using the same antibody clone with 83380-1-PBS in a different storage buffer formulation.



1x10<sup>6</sup> HEK-293 cells were intracellularly stained with 0.25 ug Nucleolin/C23 Recombinant antibody (83380-1-RR, Clone:240029F8) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011). This data was developed using the same antibody clone with 83380-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using Nucleolin/C23 antibody (83380-1-RR, Clone: 240029F8 ) at dilution of 1:250 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red). This data was developed using the same antibody clone with 83380-1-PBS in a different storage buffer formulation.



Bilayer interferometry (BLI) kinetic assays of 83380-1-RR against Human Nucleolin/C23 were performed. The affinity constant is 2.47 nM.