

# Product Datasheet

## Nucleolin Antibody (NCL/902) - Azide and BSA Free NBP2-47860-0.1mg

Unit Size: 0.1 mg

Store at -20 to -80C. Avoid freeze-thaw cycles.

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**NBP2-47860-0.1mg**

Nucleolin Antibody (NCL/902) - Azide and BSA Free

**Product Information**

|                                |   |
|--------------------------------|---|
| <b>Unit Size</b>               | 0.1 mg  |
| <b>Concentration</b>           | 1.0 mg/ml                                       |
| <b>Storage</b>                 | Store at -20 to -80C. Avoid freeze-thaw cycles. |
| <b>Clonality</b>               | Monoclonal                                      |
| <b>Clone</b>                   | NCL/902   |
| <b>Preservative</b>            | No Preservative                                 |
| <b>Isotype</b>                 | IgG1 Kappa                                      |
| <b>Purity</b>                  | Protein A or G purified                         |
| <b>Buffer</b>                  | 10 mM PBS                                       |
| <b>Target Molecular Weight</b> | 76 kDa  |

**Product Description**

|                                |  |
|--------------------------------|--|
| <b>Description</b>             | 1.0 mg/ml of antibody purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS WITHOUT BSA & azide. Also available at 200 ug/ml WITH BSA & azide (NBP2-44610).<br><br>Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80 C.   |
| <b>Host</b>                    | Mouse  |
| <b>Gene ID</b>                 | 4691   |
| <b>Gene Symbol</b>             | NCL  |
| <b>Species</b>                 | Human, Bovine (Negative), Mouse (Negative), Rat (Negative)   |
| <b>Reactivity Notes</b>        | Does not react with Mouse, Rat or Bovine.  |
| <b>Marker</b>                  | Marker of Human Cells  |
| <b>Specificity/Sensitivity</b> | Recognizes a protein of ~76kDa, which is identified as Nucleolin (NCL). It is the major nucleolar phosphoprotein of growing eukaryotic cells. NCL is located mainly in dense fibrillar regions of the nucleolus. It is found associated with intranucleolar chromatin and pre-ribosomal particles. Human NCL gene consists of 14 exons with 13 introns and spans approximately 11kb. It induces chromatin decondensation by binding to histone H1. It is thought to play a role in pre-rRNA transcription and ribosome assembly. This Mouse Monoclonal Antibody can be used to stain the nucleoli in cell or tissue preparations and can be used as a marker of the nucleoli in subcellular fractions. It produces a speckled pattern in the nuclei of cells of normal and malignant cells and may be used to stain the nucleoli of cells in fixed or frozen tissue sections. It can be used with paraformaldehyde fixed frozen tissue or cell preparations and formalin fixed, paraffin-embedded tissue sections. |
| <b>Immunogen</b>               | Recombinant full-length human Nucleolin protein (Uniprot: P19338)  |

**Product Application Details**

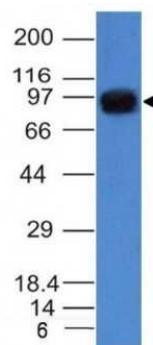
|                     |   |
|---------------------|---|
| <b>Applications</b> | Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, CyTOF-ready, Immunofluorescence |
|---------------------|---|



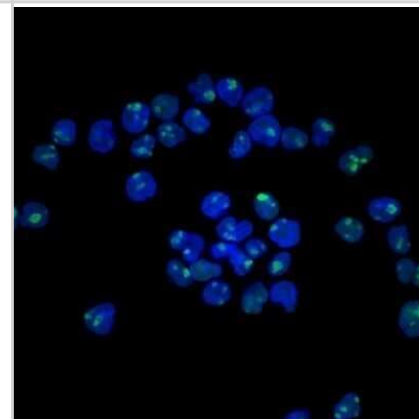
|                              |   |
|------------------------------|---|
| <b>Recommended Dilutions</b> | Western Blot 0.5 - 1.0 ug/ml, Flow Cytometry 0.5 - 1 ug/million cells in 0.1 ml, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin 0.5 - 1.0 ug/ml, Immunofluorescence 0.5 - 1.0 ug/ml, CyTOF-ready  |
| <b>Application Notes</b>     | Immunohistochemistry (Formalin-fixed): 1-2ug/ml for 30 minutes at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95C followed by cooling at RT for 20 minutes. Optimal dilution for a specific application should be determined. |

## Images

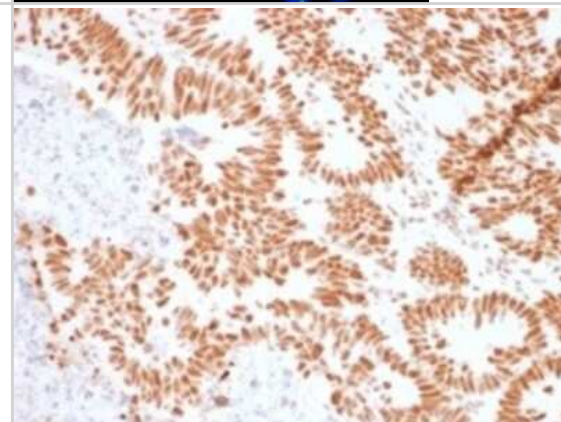
Western Blot: Nucleolin Antibody (NCL/902) - Azide and BSA Free [NBP2-47860] - A431 Cell Lysate using Nucleolin Monoclonal Antibody (NCL/902)



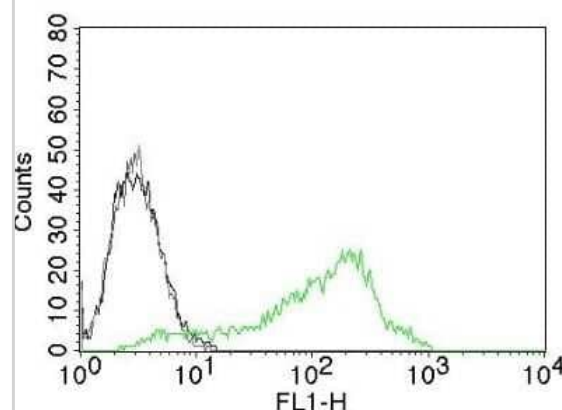
Immunocytochemistry/Immunofluorescence: Nucleolin Antibody (NCL/902) - Azide and BSA Free [NBP2-47860] -  
Immunocytochemistry/Immunofluorescence: Nucleolin Antibody (NCL/902) [NBP2-44610] - HeLa cells stained with AF488 labeled Nucleolin Antibody (NCL/902) Green: AF488-labeled Ab. Blue: DAPI.



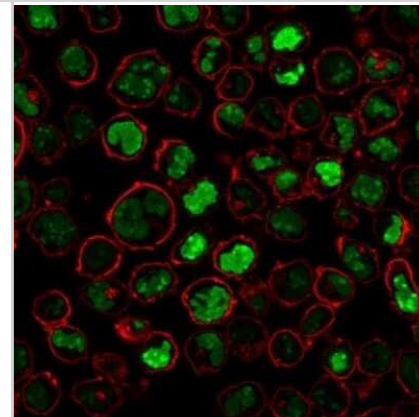
Immunohistochemistry-Paraffin: Nucleolin Antibody (NCL/902) - Azide and BSA Free [NBP2-47860] - Formalin-fixed, paraffin-embedded human colon stained with Nucleolin Antibody (NCL/902).



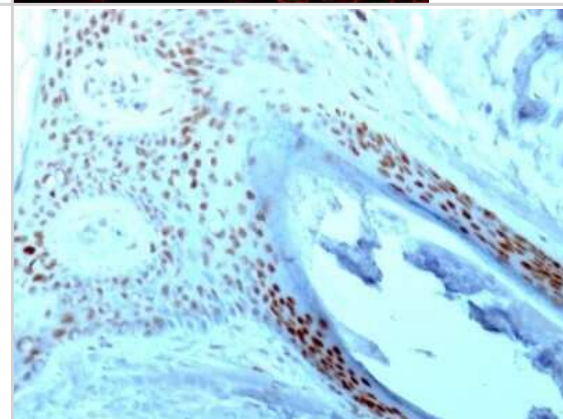
Flow Cytometry: Nucleolin Antibody (NCL/902) - Azide and BSA Free [NBP2-47860] - Flow Cytometry of Human Nucleolin Ag on 293T cells. Black: cells alone; Grey: Isotype Control; Green: AF488-labeled Nucleolin Antibody (NCL/902).



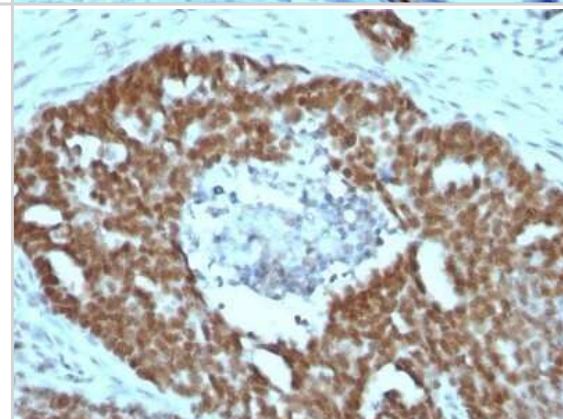
Immunocytochemistry/Immunofluorescence: Nucleolin Antibody (NCL/902) - Azide and BSA Free [NBP2-47860] - Immunofluorescence Analysis of PFA-fixed K562 cells stained with Nucleolin Antibody (NCL/902) followed by Goat anti-Mouse IgG-CF488 (Green). Membrane is stained with Phalloidin-CF640.



Immunohistochemistry-Paraffin: Nucleolin Antibody (NCL/902) - Azide and BSA Free [NBP2-47860] - Formalin-fixed, paraffin-embedded human Skin stained with Nucleolin Antibody (NCL/902).

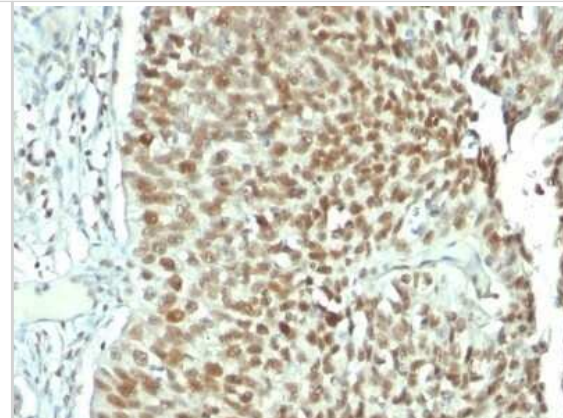


Immunohistochemistry-Paraffin: Nucleolin Antibody (NCL/902) - Azide and BSA Free [NBP2-47860] - Human Ovarian Carcinoma stained with Nucleolin Monoclonal Antibody (NCL/902).

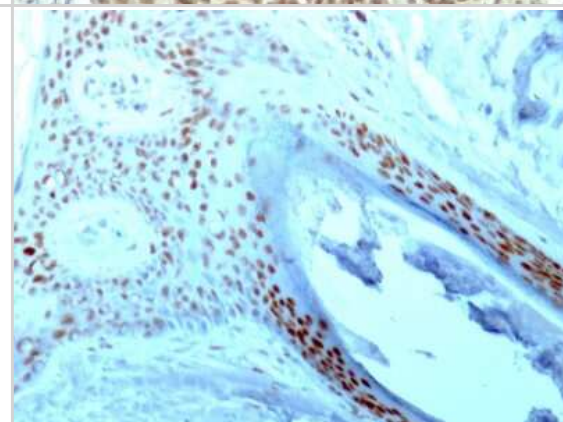




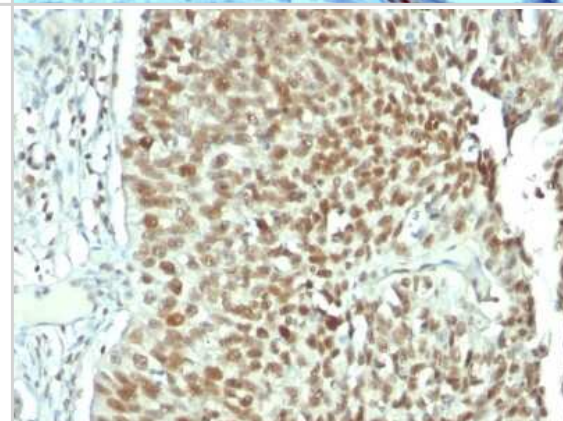
Immunohistochemistry-Paraffin: Nucleolin Antibody (NCL/902) - Azide and BSA Free [NBP2-47860] - Human Bladder carcinoma stained with Nucleolin Monoclonal Antibody (NCL/902).



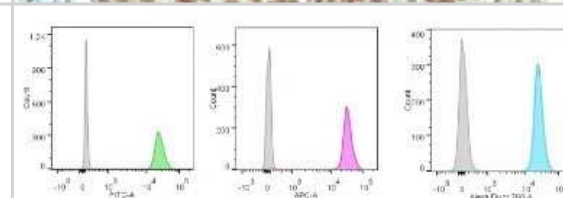
Immunohistochemistry-Paraffin: Nucleolin Antibody (NCL/902) - Azide and BSA Free [NBP2-47860] - Formalin-fixed, paraffin-embedded human Skin stained with Nucleolin Mouse Monoclonal Antibody (NCL/902).



Immunohistochemistry-Paraffin: Nucleolin Antibody (NCL/902) - Azide and BSA Free [NBP2-47860] - Formalin-fixed, paraffin-embedded human Bladder carcinoma stained with Nucleolin Mouse Monoclonal Antibody (NCL/902).



Flow Cytometry: Nucleolin Antibody (NCL/902) - Azide and BSA Free [NBP2-47860] - Flow Cytometry of Human Nucleolin Ag on Jurkat cells. Grey: Isotype Control; Green: FITC-labeled; Purple: APC-Labeled; Turquoise: AF700 Labeled Nucleolin Antibody (NCL/902).





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### **Products Related to NBP2-47860-0.1mg**

|                  |   |
|------------------|---|
| HAF007           | Goat anti-Mouse IgG Secondary Antibody [HRP]            |
| NB720-B          | Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin] |
| NBP1-43319-0.5mg | Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)           |
| NBP3-21345PEP    | Nucleolin Recombinant Protein Antigen                   |

### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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