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36-1503: Monoclonal Antibody to Nucleolin (Marker of Human Cells)(Clone : NCL/902)(Clone : NCL/902)

Clonality :	Monoclonal
Clone Name :	NCL/902
Application :	FACS,IF,WB,IHC
Reactivity :	Human
Gene :	NCL
Gene ID :	4691
Uniprot ID :	P19338
Format :	Purified
Alternative Name :	NCL
Isotype :	Mouse IgG1, kappa
Immunogen Information :	Recombinant human NCL protein

Description

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 MAb 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.

Product Info

Amount :	100 µg
Purification :	Affinity Chromatography
Content :	100 µg in 500 µl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic.
Storage condition :	Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

Flow Cytometry (1-2ug/million cells); Immunofluorescence (1-2ug/ml); Western Blot (1-2ug/ml); ,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 95 &degC followed by cooling at RT for 20 minutes),

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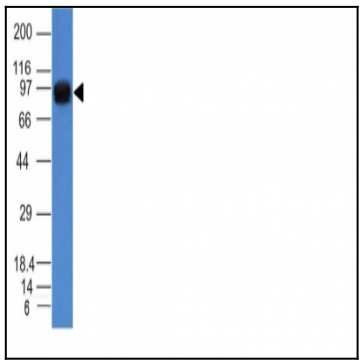
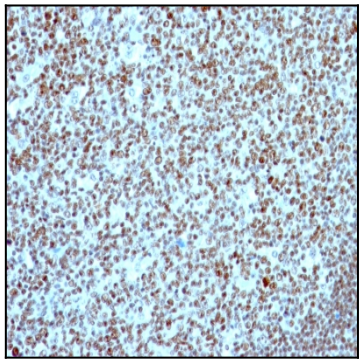
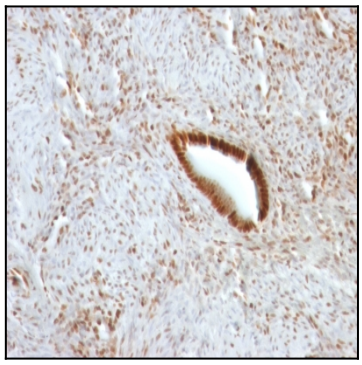


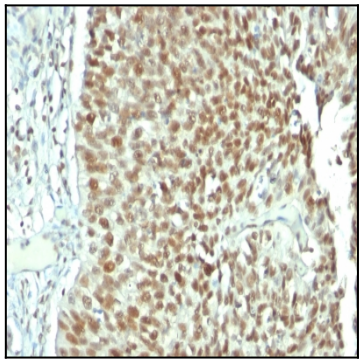
Fig-1: Western Blot of A431 Cell Lysate using Nucleolin Monoclonal Antibody (NCL/902)



Formalin-fixed, paraffin-embedded human Tonsil stained with Nucleolin Monoclonal Antibody (NCL/902).



Formalin-fixed, paraffin-embedded human Skin stained with Nucleolin Monoclonal Antibody (NCL/902).



Formalin-fixed, paraffin-embedded human Uterus stained with Nucleolin Monoclonal Antibody (NCL/902).

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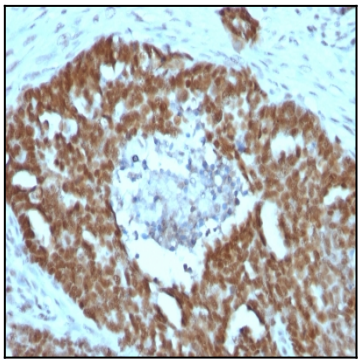
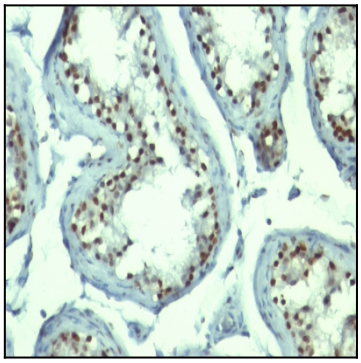
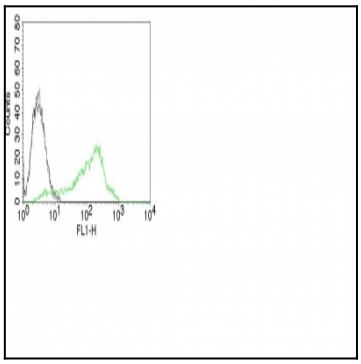


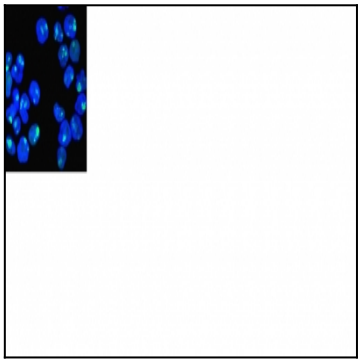
Formalin-fixed, paraffin-embedded human Bladder carcinoma stained with Nucleolin Monoclonal Antibody (NCL/902).



Formalin-fixed, paraffin-embedded human Ovarian Carcinoma stained with Nucleolin Monoclonal Antibody (NCL/902).



Formalin-fixed, paraffin-embedded human Testicular Carcinoma stained with Nucleolin Monoclonal Antibody (NCL/902).



Flow Cytometry of Human Nucleolin Ag on 293T Cells. Black: Cells alone; Grey: Isotype Control; Green: AF488-labeled Nucleolin Monoclonal Antibody (NCL/902).

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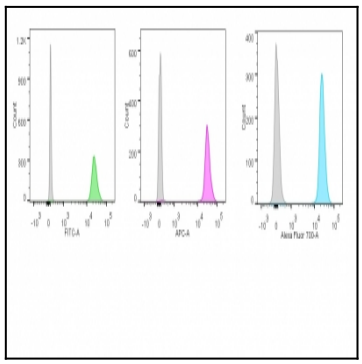

HeLa Cells stained with AF488 labeled Nucleolin Monoclonal Antibody (NCL/902)
Green: AF488-labeled Ab. Blue: DAPI.