

Product Datasheet

Nucleolin Antibody Cocktail (orb2638995)

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.
Species/Host	Mouse
Reactivity	Human
Conjugation	Unconjugated
Tested Applications	FACS, IF, IHC-P, WB
Immunogen	SUDHL1 cell nuclear lysate (364-5) and recombinant human protein (NCL/902) were used as the immunogen for the Nucleolin antibody cocktail.
Preservatives	0.2 mg/ml in 1X PBS with 0.1 mg/ml rAlbumin (US sourced) and 0.05% sodium azide
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Note	For research use only

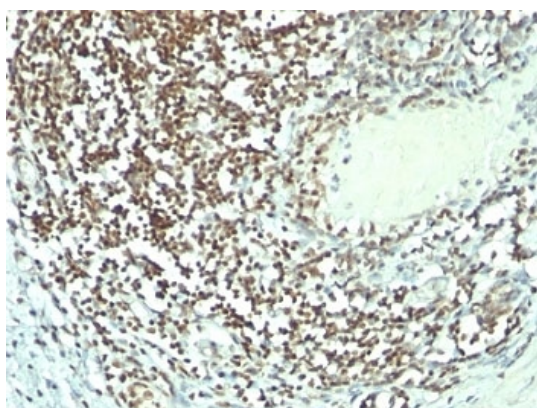
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Application notes	Optimal dilution of the NCL antibody should be determined by the researcher.1. Staining of formalin-fixed tissues is enhanced by boiling tissue sections in 10mM Citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 min2. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.
Formula	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide
Isotype	Mouse IgG1, kappa
Clonality	Monoclonal
Clone Number	364-5 + NCL/902
Antibody Type	Primary Antibody
Purity	Protein G affinity chromatography
Uniprot ID	P19338
Hazard Information	This Nucleolin antibody cocktail is available for research use only.
Dilution Range	Flow cytometry: 0.5-1ug/million cells,Immunofluorescence: 1-2ug/ml,Western blot: 0.5-1ug/ml,Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT
Expiration Date	12 months from date of receipt.



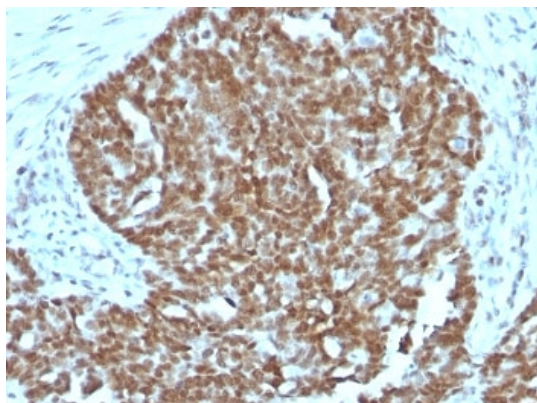
IHC: Formalin-fixed, paraffin-embedded human bladder carcinoma stained with Nucleolin antibody (364-5 + NCL/902).

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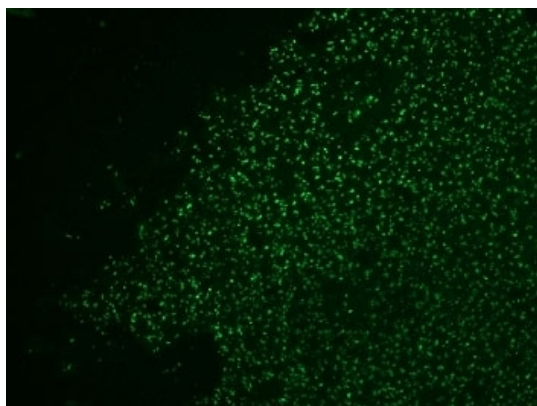
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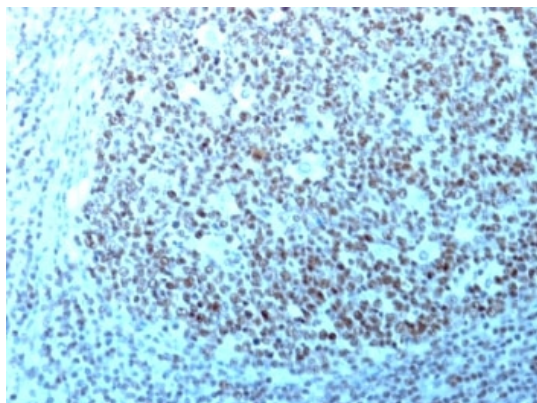
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IHC: Formalin-fixed, paraffin-embedded human ovarian carcinoma stained with Nucleolin antibody.



IHC: Formalin-fixed, paraffin-embedded human colon carcinoma stained with AF488 Conjugate of Nucleolin antibody.



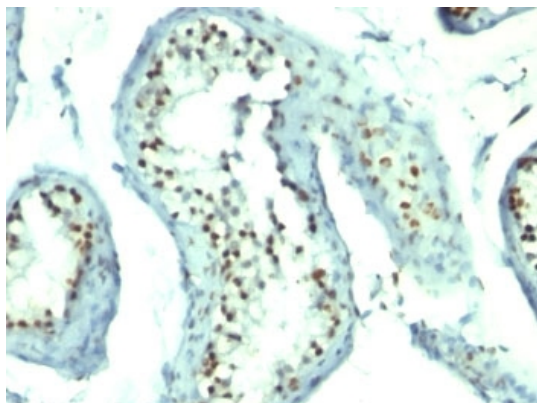
IHC: Formalin-fixed, paraffin-embedded human tonsil stained with Nucleolin antibody.

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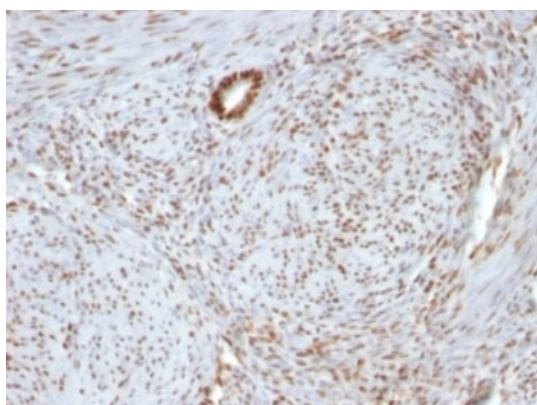
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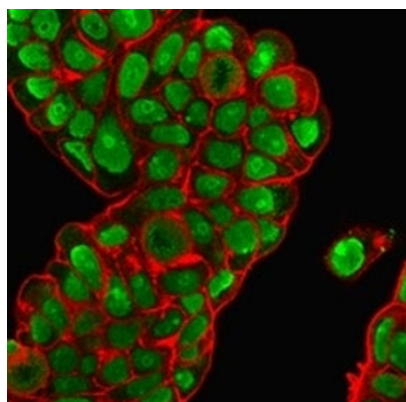
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IHC: Formalin-fixed, paraffin-embedded human testicular carcinoma stained with Nucleolin antibody.



IHC: Formalin-fixed, paraffin-embedded human uterus stained with Nucleolin antibody.



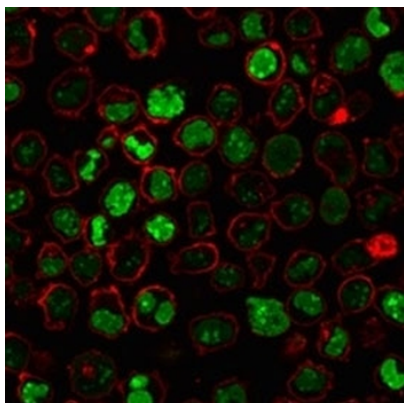
Immunofluorescent staining of PFA-fixed human MCF7 cells with Nucleolin antibody (green, clones 364-5 + NCL/902) and Phalloidin (red).

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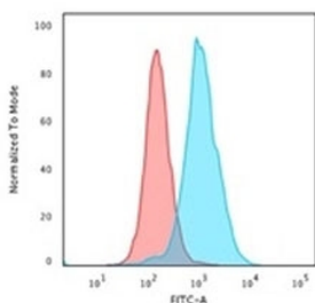
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Immunofluorescent staining of PFA-fixed human K562 cells with Nucleolin antibody (green, clones 364-5 + NCL/902) and Phalloidin (red).



Flow cytometry staining of PFA-fixed human K562 cells with Nucleolin antibody; Red = isotype control, Blue = Nucleolin antibody.

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