Nucleolin (Marker of Human Cells) Antibody

Mouse Monoclonal Antibody [Clone 364-5]

Catalog No	Format	Size
4691-MSM2-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
4691-MSM2-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
4691-MSM2-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

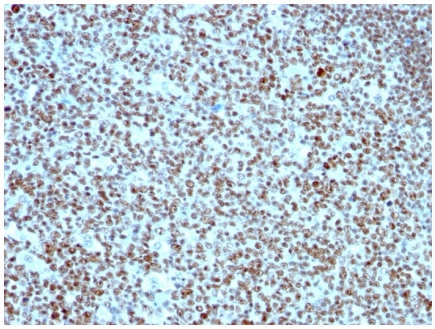
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

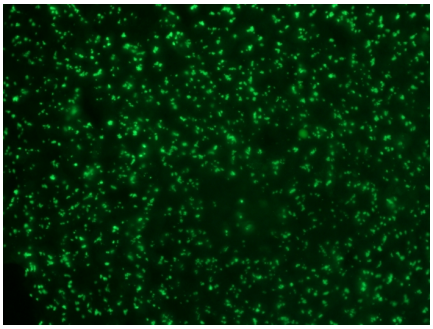
Clone	364-5
Gene Name	NCL
Immunogen	lysate of SU-DHL-1 Nuclei
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	76kDa
Cellular Localization	Cytoplasm, Nucleolus, Nucleus
Species Reactivity	Human
Positive Control	All human cells. Testis, Endometrial or Hodgkin's lymphoma., ovary, Uterus

**Optimal dilution for a specific application should be determined.*

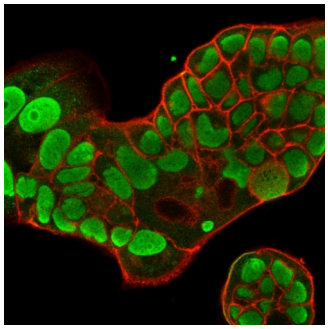
Product Images for Nucleolin (Marker of Human Cells) Antibody



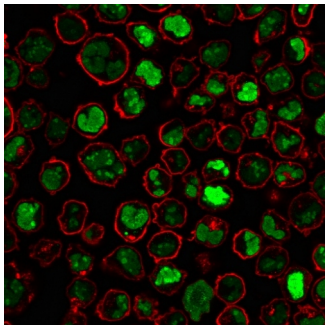
Formalin-fixed, paraffin-embedded human Tonsil stained with Nucleolin Monoclonal Antibody (364-5).



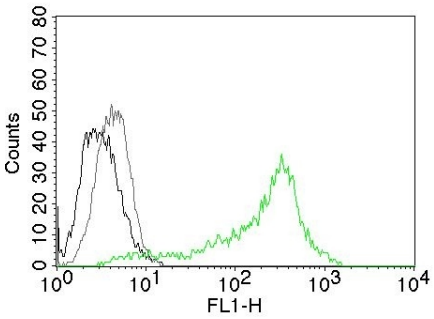
Formalin-fixed, paraffin-embedded Rat Kidney stained with AF488-conjugated BrdU Mouse Monoclonal Antibody (BRD469).



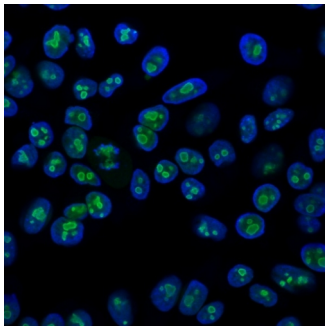
Immunofluorescence Analysis of PFA-fixed MCF-7 cells stained with Nucleolin Mouse Monoclonal Antibody (364-5) followed by Goat anti-Mouse IgG-CF488 (Green). Membrane is stained with Phalloidin-CF640.



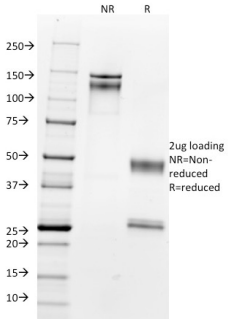
Immunofluorescence Analysis of PFA-fixed K562 cells stained with Nucleolin Mouse Monoclonal Antibody (364-5) followed by Goat anti-Mouse IgG-CF488 (Green). Membrane is stained with Phalloidin-CF640.



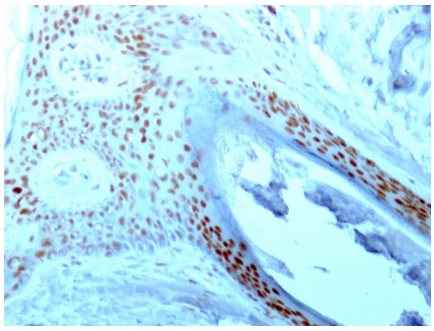
Flow Cytometry of Human Nucleolin Ag on 293T cells. Black: cells alone; Grey: Isotype Control; Green: AF488-labeled Nucleolin Monoclonal Antibody (364-5).



Immunofluorescence Analysis HeLa cells labeling Nucleolin with Nucleolin Mouse Monoclonal Antibody (364-5) followed by Goat anti-Mouse IgG-CF488 (Green). The nuclear counterstain is DAPI (Blue).



SDS-PAGE Analysis Purified with Nucleolin Monoclonal Antibody (364-5). Confirmation of Integrity and Purity of Antibody



Formalin-fixed, paraffin-embedded human Skin stained with Nucleolin Monoclonal Antibody (364-5).

Specificity & Comments

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.

Supplied As

200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

Cardiovascular, Nuclear Marker

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Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.