

Product Datasheet

Nucleolin Antibody (364-5)

NBP2-44612-0.1mg

Unit Size: 0.1 mg

Store at 4C.

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NBP2-44612-0.1mg

Nucleolin Antibody (364-5)

Product Information	
Unit Size	0.1 mg
Concentration	0.2 mg/ml
Storage	Store at 4C.
Clonality	Monoclonal
Clone	364-5
Preservative	0.05% Sodium Azide
Isotype	IgG1 Kappa
Purity	Protein A or G purified
Buffer	10 mM PBS with 0.05% BSA
Target Molecular Weight	76 kDa

Product Description	
Description	200ug/ml of antibody purified from Bioreactor Concentrate by Protein A or G. Prepared in 10 mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0 mg/ml. (NBP2-47861) Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80C.
Host	Mouse
Gene ID	4691
Gene Symbol	NCL
Species	Human, Bovine (Negative), Mouse (Negative), Rat (Negative)
Reactivity Notes	Does not react with Mouse, Rat or Bovine.
Marker	Marker of Human Cells
Specificity/Sensitivity	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 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.
Immunogen	lysate of SU-DHL-1 Nuclei (Uniprot: P19338)

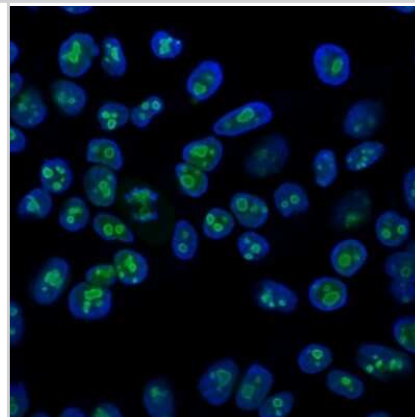
Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1-2 ug/ml, Flow Cytometry 1-2 ug/million cells, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1-2 ug/ml, Immunohistochemistry-Paraffin 0.25-0.5 ug/ml

Application Notes

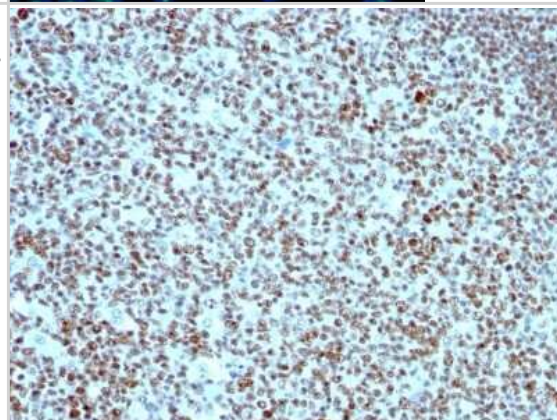
Immunohistochemistry (Formalin-fixed): 0.25-0.5ug/ml for 30 minutes at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95C followed by cooling at RT for 20 minutes.
Optimal dilution for a specific application should be determined.

Images

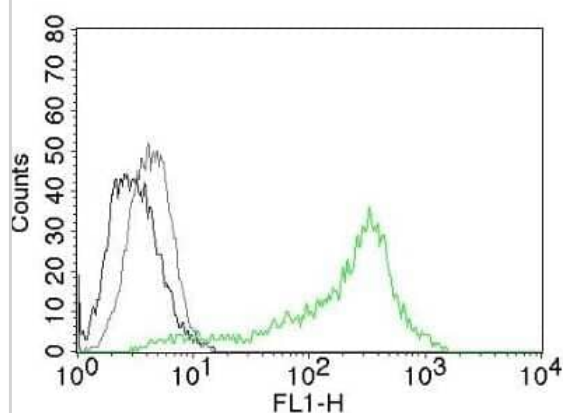
Immunocytochemistry/Immunofluorescence: Nucleolin Antibody (364-5) [NBP2-44612] - Immunofluorescence Analysis HeLa cells labeling Nucleolin with Nucleolin Antibody (364-5) followed by Goat anti-Mouse IgG-CF488 (Green). The nuclear counterstain is DAPI (Blue).



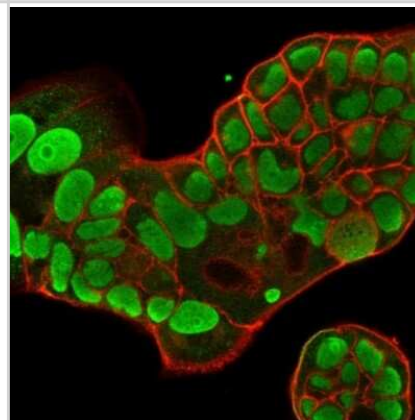
Immunohistochemistry-Paraffin: Nucleolin Antibody (364-5) [NBP2-44612] - Human Tonsil stained with Nucleolin Monoclonal Antibody (364-5).



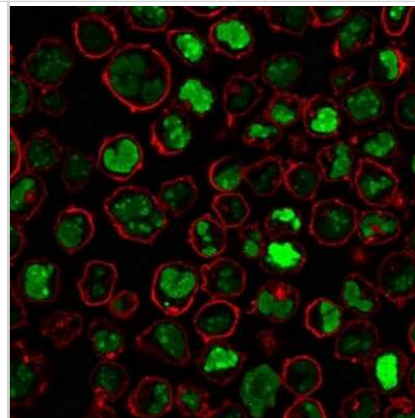
Flow Cytometry: Nucleolin Antibody (364-5) [NBP2-44612] - Flow Cytometry of Human Nucleolin Ag on 293T cells. Black: cells alone; Grey: Isotype Control; Green: AF488-labeled Nucleolin Antibody (364-5).



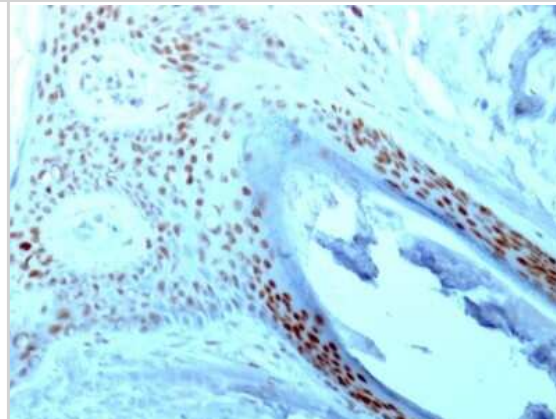
Immunocytochemistry/Immunofluorescence: Nucleolin Antibody (364-5) [NBP2-44612] - Immunofluorescence Analysis of PFA-fixed MCF-7 cells stained with Nucleolin Antibody (364-5) followed by Goat anti-Mouse IgG-CF488 (Green). Membrane is stained with Phalloidin-CF640.



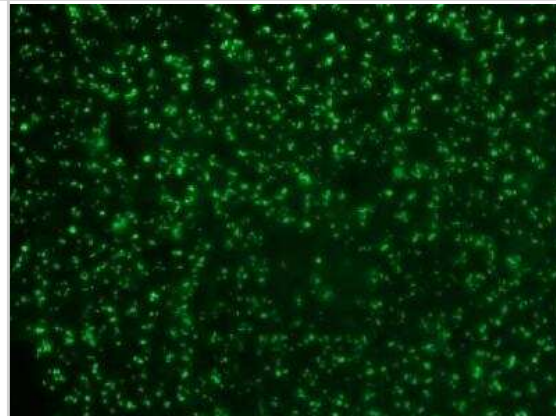
Immunocytochemistry/Immunofluorescence: Nucleolin Antibody (364-5) [NBP2-44612] - Immunofluorescence Analysis of PFA-fixed K562 cells stained with Nucleolin Antibody (364-5) followed by Goat anti-Mouse IgG-CF488 (Green). Membrane is stained with Phalloidin-CF640.



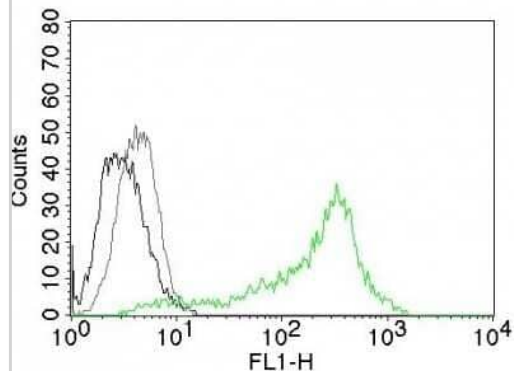
Immunohistochemistry-Paraffin: Nucleolin Antibody (364-5) [NBP2-44612] - Human Skin stained with Nucleolin Monoclonal Antibody (364-5).



Immunohistochemistry-Paraffin: Nucleolin Antibody (364-5) [NBP2-44612] - Formalin-fixed paraffin-embedded human Colon Carcinoma stained with AF488 conjugate of Nucleolin Monoclonal Antibody (364-5).



Flow Cytometry: Nucleolin Antibody (364-5) [NBP2-44612] - Human Nucleolin Ag on 293T Cells. Black: Cells alone; Grey: Isotype Control; Green: AF488-labeled Nucleolin Monoclonal Antibody (364-5).



Publications

Tiek DM, Erdogdu B, Razaghi R et al. Temozolomide-induced guanine mutations create exploitable vulnerabilities of guanine-rich DNA and RNA regions in drug-resistant gliomas Science advances 2022-06-24 [PMID: 35731869] (ICC/IF, Human)

Tiek DM, Razaghi R, Jin L, Sadowski N Targeting destabilized DNA G-quadruplexes and aberrant splicing in drug-resistant glioblastoma bioRxiv 1905-07-11 (ICC/IF, Human)





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Products Related to NBP2-44612-0.1mg

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)
NBP1-88271PEP	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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