

Mouse Nucleolin Monoclonal Antibody | anti-NCL antibody

Nucleolin (Marker of Human Cells)

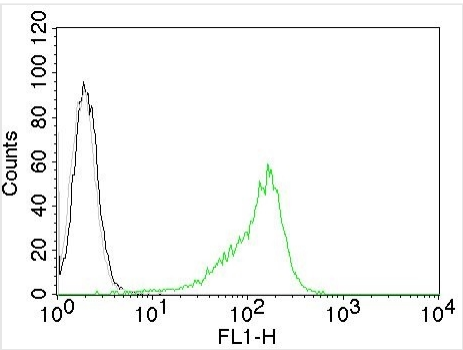
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA215100	Mouse	HumanDoes not react with Mouse, Rat or Cow.	Immunofluorescence, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

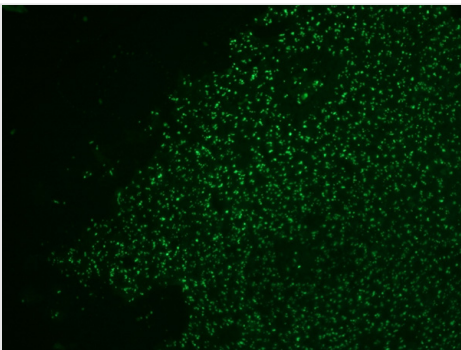
Nucleolin; Monoclonal Antibody; Nucleolin (Marker of Human Cells); NCL; Nucl; Protein C23; anti-NCL antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human Does not react with Mouse, Rat or Cow.
Clonality	Monoclonal
Isotype	IgG1, kappa
Clone Number	NCL/902
Specificity	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.
Purity/Purification	Purified Ab conjugated to CF488
Form/Format	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.
Sequence Length	710
Applicable Applications for anti-NCL antibody	IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Positive Control	HeLa cells. Breast Cancer.
Immunogen	Recombinant human NCL protein
Cellular Localization	Nucleoli
Hu-chromosome Location	2q37.1
Preparation and Storage	Antibody with azide: store at 4 to 8 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.



FCM/FACS (Flow Cytometry)
Flow Cytometric Analysis of human Nucleolin on 293T cells. Black: cells alone; Grey: Isotype Control; Green: CF488-labeled Nucleolin Monoclonal Antibody (NCL/902).



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Colon Carcinoma stained with CF488-labeled Nucleolin Monoclonal Antibody (NCL/902).

ADDITIONAL INFORMATION

References	1. Qiu W, Zhou F, Zhang Q, Sun X, Shi X, Liang Y, Wang X, Yue L. Overexpression of nucleolin and different expression sites both related to the prognosis of gastric cancer. APMIS. 2013;121(10):919-25. 2. Fujiki H, Watanabe T, Suganuma M. Cell-surface nucleolin acts as a central mediator for carcinogenic, anti-carcinogenic, and disease-related ligands. J Cancer Res Clin Oncol. 2014;140(5):689-99.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	55956788
NCBI GeneID	4691
NCBI Accession #	NP_005372.2
NCBI GenBank Nucleotide #	NP_005372.2
UniProt Accession #	P19338
Molecular Weight	76kDa
NCBI Official Full Name	nucleolin
NCBI Official Synonym Full Names	nucleolin
NCBI Official Symbol	NCL
NCBI Official Synonym Symbols	C23; Nsr1
NCBI Protein Information	nucleolin
UniProt Protein Name	Nucleolin
UniProt Gene Name	NCL
UniProt Entry Name	NUCL_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.