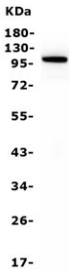
Nucleolin Antibody Rabbit Polyclonal (RQ5539)

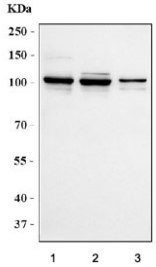
Catalog No.	Formulation	Size
RQ5539	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

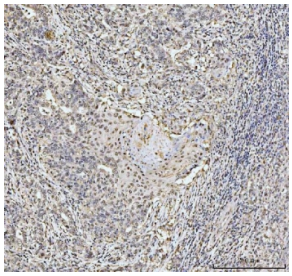
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat, Monkey
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	P19338
Localization	Nuclear
Applications	Western blot: 0.25-0.5ug/ml Immunohistochemistry (FFPE): 1-2ug/ml Flow cytometry: 1-3ug/million cells Immunofluorescence: 2-4ug/ml Direct ELISA: 0.1-0.5ug/ml
Limitations	This Nucleolin antibody is available for research use only.



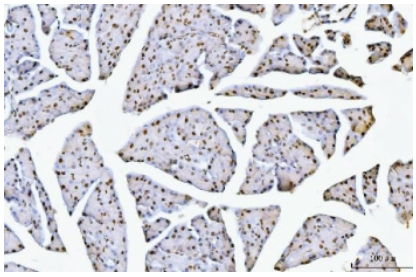
Western blot testing of human HepG2 cell lysate with Nucleolin antibody. Predicted molecular weight ~77 kDa, commonly observed at 100~110 kDa.



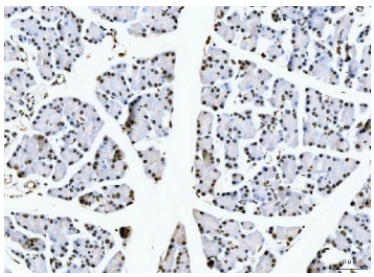
Nucleolin Antibody Rabbit Polyclonal western blot analysis. Lane 1: human K562 lysate, Lane 2: human HeLa lysate, Lane 3: monkey COS-7 lysate. A band is detected at approximately 100-110 kDa, consistent with the commonly observed migration of Nucleolin / NCL despite a predicted molecular weight of approximately 77 kDa. The higher apparent size is well documented for this nucleolar phosphoprotein and reflects extensive post-translational modification and acidic domain composition that alter SDS-PAGE migration.



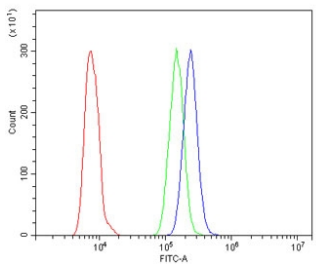
Nucleolin Antibody Rabbit Polyclonal immunohistochemistry analysis of human renal pelvis tissue. Formalin-fixed paraffin-embedded human squamous metaplasia of the renal pelvis stained with Nucleolin Antibody Rabbit Polyclonal. HRP-DAB brown chromogenic staining highlights nuclei of epithelial cells within the metaplastic squamous epithelium, consistent with the expected nuclear and nucleolar localization of Nucleolin / NCL. HIER: boil tissue sections in pH8 EDTA for 20 minutes and allow to cool before testing.



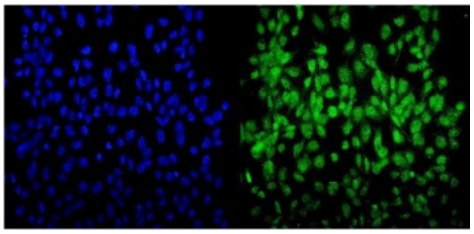
IHC staining of FFPE mouse pancreas with Nucleolin antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



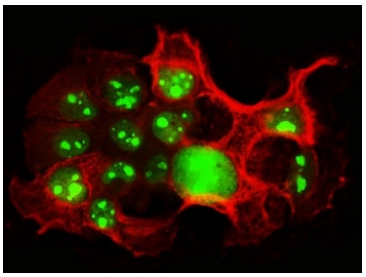
IHC staining of FFPE rat pancreas with Nucleolin antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Flow cytometry testing of human HL60 cells with Nucleolin antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Nucleolin antibody.



Immunofluorescent staining of FFPE human U-2 OS cells with Nucleolin antibody (green) and DAPI nuclear stain (blue).



Nucleolin Antibody Rabbit Polyclonal immunofluorescence analysis of human A431 cells. Formalin-fixed cells stained with Nucleolin Antibody Rabbit Polyclonal (green) and Beta Tubulin antibody (red). Green fluorescence highlights nucleolin-positive nuclei and nucleoli, consistent with the expected nuclear and nucleolar localization of Nucleolin / NCL, while Beta Tubulin staining outlines the cytoskeletal network within the cytoplasm.

Description

Nucleolin is a protein that in humans is encoded by the NCL gene. It is mapped to 2q37.1. Nucleolin (NCL), a eukaryotic nucleolar phosphoprotein, is involved in the synthesis and maturation of ribosomes. It is located mainly in dense fibrillar regions of the nucleolus. Human NCL gene consists of 14 exons with 13 introns and spans approximately 11kb. The intron 11 of the NCL gene encodes a small nucleolar RNA, termed U20.

For an alternative monoclonal antibody targeting this nucleolar protein, see our Nucleolin Antibody NCL/902, validated for western blot, immunohistochemistry, immunofluorescence, and flow cytometry.

Application Notes

Optimal dilution of the Nucleolin Antibody Rabbit Polyclonal should be determined by the researcher.

Immunogen

A human recombinant protein (amino acids K219-A629) was used as the immunogen for the rabbit polyclonal Nucleolin antibody.

Storage

After reconstitution, the Nucleolin antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Alternate Names

NCL antibody, C23 nucleolin antibody, nucleolar protein nucleolin antibody, nucleolin nucleolar phosphoprotein antibody

Copyright © NSJ Bioreagents. All rights reserved.