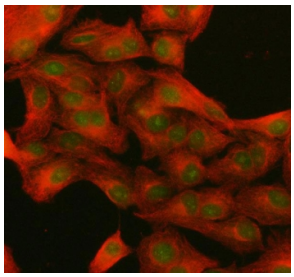
NUP133 Antibody (RQ8319)

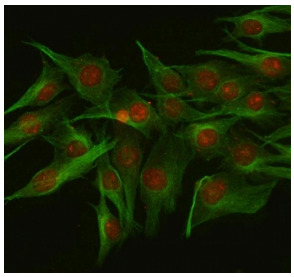
Catalog No.	Formulation	Size
RQ8319	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

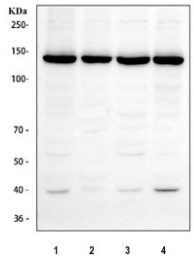
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q8WUM0
Applications	Western Blot : 0.5-1ug/ml Immunofluorescence : 5ug/ml Immunoprecipitation : 2ug/500ug of lysate Direct ELISA : 0.1-0.5ug/ml
Limitations	This NUP133 antibody is available for research use only.



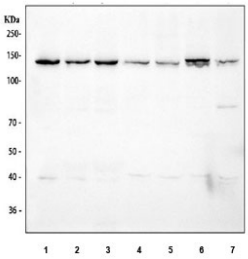
Immunofluorescent staining of FFPE human A549 cells with NUP133 antibody (green) and Beta Tubulin mAb (red). HIER: steam section in pH6 citrate buffer for 20 min.



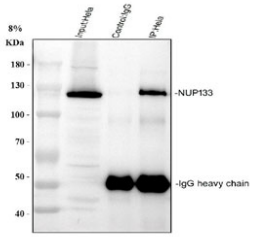
Immunofluorescent staining of FFPE rat C6 cells with NUP133 antibody (red) and Beta Tubulin mAb (green). HIER: steam section in pH6 citrate buffer for 20 min.



Western blot testing of human 1) HeLa, 2) HepG2, 3) 293T and 4) K562 cell lysate with NUP133 antibody. Predicted molecular weight ~129 kDa, commonly observed at ~133 kDa.



Western blot testing of 1) human K562, 2) human A549, 3) human MCF7, 4) rat C6, 5) rat NRK, 6) mouse Neuro-2a and 7) mouse NIH 3T3 cell lysate with NUP133 antibody. Predicted molecular weight ~129 kDa, commonly observed at ~133 kDa.



Immunoprecipitation of NUP133 protein from 500ug of human HeLa whole cell lysate with 2ug of NUP133 antibody.

Description

Nuclear pore complex protein Nup133, or Nucleoporin Nup133, is a protein that in humans is encoded by the NUP133 gene. The nuclear envelope creates distinct nuclear and cytoplasmic compartments in eukaryotic cells. It consists of two concentric membranes perforated by nuclear pores, large protein complexes that form aqueous channels to regulate the flow of macromolecules between the nucleus and the cytoplasm. These complexes are composed of at least 100 different polypeptide subunits, many of which belong to the nucleoporin family. The nucleoporin protein encoded by this gene displays evolutionarily conserved interactions with other nucleoporins. This protein, which localizes to both sides of the nuclear pore complex at interphase, remains associated with the complex during mitosis and is targeted at early stages to the reforming nuclear envelope. This protein also localizes to kinetochores of mitotic cells.

Application Notes

Optimal dilution of the NUP133 antibody should be determined by the researcher.

Immunogen

An E.coli-derived human recombinant protein (Q228-I1156) was used as the immunogen for the NUP133 antibody.

Storage

After reconstitution, the NUP133 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.