abcam

Product datasheet

Anti-Nup153 antibody [QE5] ab24700

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Overview

Product name	Anti-Nup153 antibody [QE5]
Description	Mouse monoclonal [QE5] to Nup153
Host species	Mouse
Specificity	This antibody could also recognise other NPC polypeptides, p250 and p62, apart from Nup153.
Tested applications	**Suitable for:** ICC/IF
Species reactivity	**Reacts with:** Mouse, Human
Immunogen	Full length protein. This information is proprietary to Abcam and/or its suppliers.
Positive control	ICC/IF: U2OS, HepG2, HeLa, Human and Mouse cells. ICC: NIH3T3 cells
General notes	This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact **orders@abcam.com**. The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: PBS, 6.97% L-Arginine
Purity	Protein G purified
Clonality	Monoclonal
Clone number	QE5
Isotype	IgG1

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab24700 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF	★★★★★ **(2)**	Use a concentration of 1 µg/ml.

Target

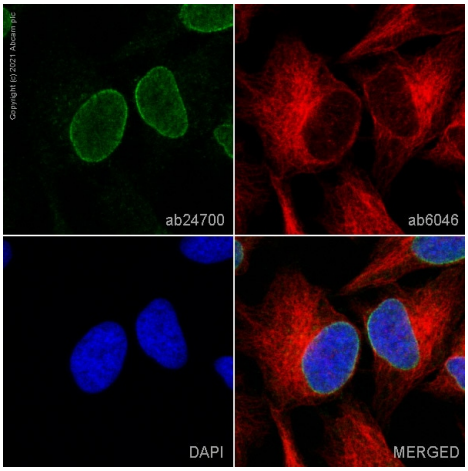
Function Possible DNA-binding subunit of the nuclear pore complex (NPC). The repeat-containing domain may be involved in anchoring components of the pore complex to the pore membrane.

Sequence similarities Contains 4 RanBP2-type zinc fingers.

Domain Contains F-X-F-G repeats.

Cellular localization Nucleus > nuclear pore complex. Located to the terminal ring structure of the nucleoplasmic cage.

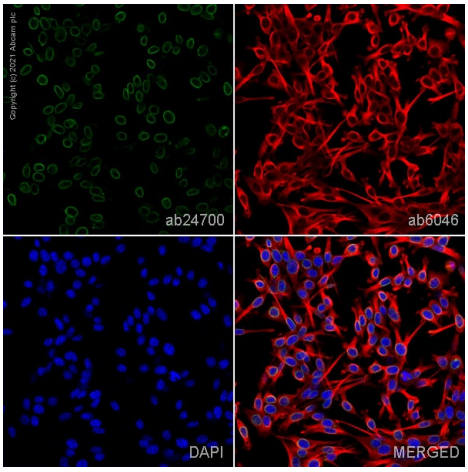
Images



Immunocytochemistry/ Immunofluorescence - Anti-Nup153 antibody [QE5] (ab24700)

ab24700 staining Nup153 in HeLa cells. The cells were fixed with 100% methanol (5 min) then permeabilized with 0.1% Triton X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated with ab24700 at 0.4 µg/ml concentration and **ab6046** (Rabbit polyclonal to beta Tubulin) at 1/1000 dilution overnight at +4°C followed by a further incubation at room temperature for 1h with a goat secondary antibody to mouse IgG (Alexa Fluor® 488) (**ab150117**) at 2 µg/ml (shown in green) and a goat secondary antibody to rabbit IgG (Alexa Fluor® 594) (**ab150080**) at 2 µg/ml (shown in red). Nuclear DNA was labelled in blue with DAPI.

Image was taken with a confocal microscope (Leica-Microsystems TCS SP8).

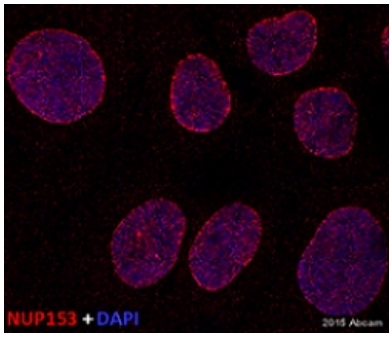


Immunocytochemistry/ Immunofluorescence - Anti-Nup153 antibody [QE5] (ab24700)

ab24700 staining Nup153 in NIH3T3 cells. The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.1% PBS-Triton X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1%PBS-Tween for 1h. The cells were then incubated overnight at 4°C with ab24700 at 1µg/ml and **ab6046**, Rabbit polyclonal to beta Tubulin - Loading Control. Cells were then incubated with **ab150117**, Goat polyclonal Secondary Antibody to Mouse IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 dilution (shown in green) and **ab150080**, Goat polyclonal Secondary Antibody to Rabbit IgG - H&L (Alexa Fluor® 594) at 1/1000 dilution (shown in pseudocolour red). Nuclear DNA was labelled with DAPI (shown in blue).

Also suitable in cells fixed with 100% methanol (5 min).

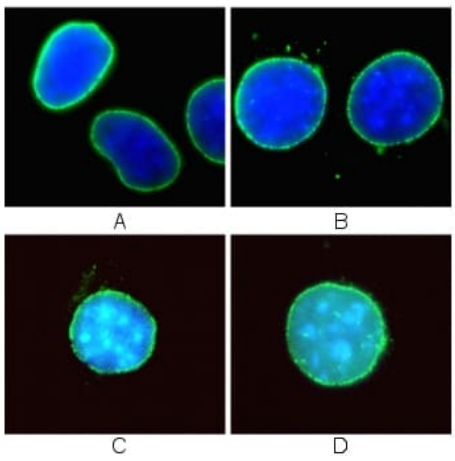
Image was acquired with a confocal microscope (Leica-Microsystems TCS SP8) and a single confocal section is shown.



Immunocytochemistry/ Immunofluorescence - Anti-Nup153 antibody [QE5] (ab24700)

This image is courtesy of an anonymous Abreview.

Immunocytochemical analysis of U2OS cells, labeling Nup153 with ab24700. Cells were formaldehyde fixed, permeabilized with NP40, and blocked with 3% BSA for 1 hour at 21°C. Immunostaining with ab24700 diluted 1/100 for 12 hours at 4°C.

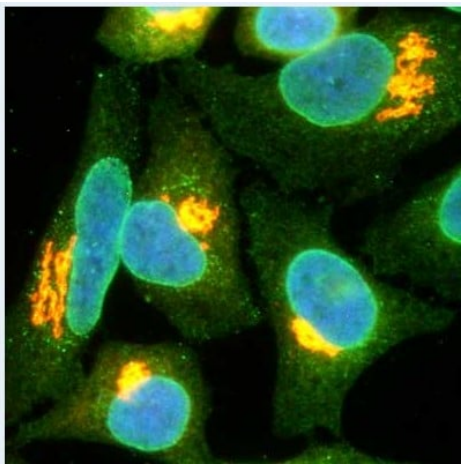


Immunocytochemistry/ Immunofluorescence - Anti-Nup153 antibody [QE5] (ab24700)

This image is courtesy of Patrizia Lavia & Maria de Luca, University La Sapienza

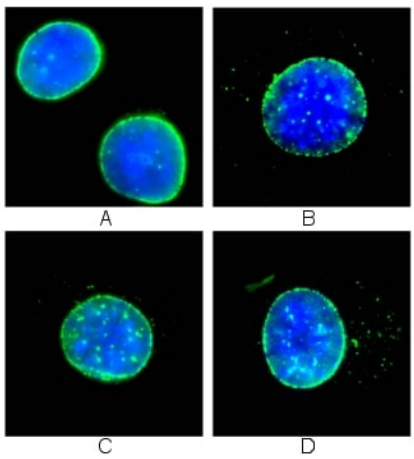
Human and mouse cells treated with different concentrations of ab24700. The cells were fixed in 4% formaldehyde and permeabilized in 0.2% Triton x100 for 10 minutes at room temperature, then washed 3 times in PBS. The fixation and permeabilization was carried out in a single step. The image shows clear staining of the nuclear envalope (green). The DNA is stained with DAPI (blue).

A: HeLa cells, ab24700 used at 4µg/ml
B: 3T3 cells, ab24700 used at 2µg/ml
C: 3T3 cells, ab24700 used at 4µg/ml
D: 3T3 cells, ab24700 used at 6.6µg/ml



Immunocytochemistry/ Immunofluorescence - Anti-Nup153 antibody [QE5] (ab24700)

Methanol fixed HeLa stained with ab24700. This antibody brilliantly highlights the nuclear membrane (green). The golgi is stained with Giantin (yellow).



Immunocytochemistry/ Immunofluorescence - Anti-Nup153 antibody [QE5] (ab24700)

This image is courtesy of Patrizia Lavia & Maria de Luca, University La Sapienza

Human and mouse cells treated with different concentrations of ab24700. The cells were fixed in 100% methanol for 20 minutes at -20°C, then washed once in PBS. The image shows clear staining of the nuclear envalope (green). The DNA is stained with DAPI (blue).

A: HeLa cells, ab24700 used at 4µg/ml
B: 3T3 cells, ab24700 used at 2µg/ml
C: 3T3 cells, ab24700 used at 4µg/ml
D: 3T3 cells, ab24700 used at 6.6µg/ml

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