abcam

Product datasheet

Anti-Nuclear Pore Complex Proteins antibody [Mab414] ab24609

11 Abreviews 161 References 4 Images

Overview

Product name	Anti-Nuclear Pore Complex Proteins antibody [Mab414]
Description	Mouse monoclonal [Mab414] to Nuclear Pore Complex Proteins
Host species	Mouse
Tested applications	**Suitable for:** ICC/IF
Species reactivity	**Reacts with:** Mouse, Human, Saccharomyces cerevisiae **Predicted to work with:** Vertebrata
Immunogen	Full length native protein (purified) corresponding to Human Nuclear Pore Complex Proteins. Nuclear Pore Complex Proteins
Positive control	Raw, HEK 293 cell lysate (see Abreview), rat liver lysate (see Aris reference)
General notes	This is a reliable general purpose monoclonal antibody which recognizes a related family of NPC proteins. This antibody is ideal for studying the morphology and composition of the nucleus and nuclear envelope. It is also useful in studying changes in the nuclear structure during mitosis and meiosis. This product was changed from ascites to tissue culture supernatant on 20/05/2019. Please note that the dilutions may need to be adjusted accordingly. If you have any questions, please do not hesitate to contact our scientific support team. 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. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

Storage buffer	Preservative: 0.03% Thimerosal (merthiolate) Constituent: PBS
Purity	Affinity purified
Primary antibody notes	This is a reliable general purpose monoclonal antibody which recognizes a related family of NPC proteins. This antibody is ideal for studying the morphology and composition of the nucleus and nuclear envelope. It is also useful in studying changes in the nuclear structure during mitosis and meiosis.
Clonality	Monoclonal
Clone number	Mab414
Isotype	IgG1

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab24609 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	★★★★☆ (8)	Use at an assay dependent concentration. Fix cells with 4% paraformaldehyde in NWB (200 mM sucrose, 15 mM Hepes, pH 7.4, 50 mM NaCl, 2.5 mM MgCl2, and 1 mM DTT). Permeabilise with 0.1% NP-40 or 0.1% Triton X-100 in PBS for 2 min. (see Lopez-Soler reference); different customer have used this antibody at different dilutions for ICC/IF (see images below). We recommend that optimal working dilutions are

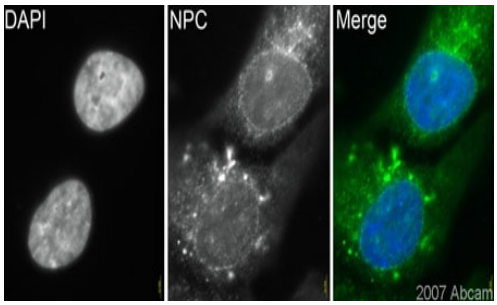
Images

Immunocytochemistry/ Immunofluorescence - Anti-Nuclear Pore Complex Proteins antibody [Mab414] (ab24609)

Image courtesy of Saram N J et al. J Biol Chem. 2011 Nov 11; 286(45): 38989–39001. doi: 10.1074/jbc.M111.297952

ab24609 staining Nuclear Pore Complex Proteins in Human chronic myelogenous leukemia cells from bone marrow cells. Cells were fixed with 4% paraformaldehyde in DPBS buffer for 20 mins and permeabilised with 0.1% Triton X-100 for 20 min at room temperature. Cells were blocked with 2% normal goat serum in DPBS with 1% BSA and washed with 0.1% Tween 20.

This image was generated using the ascites version of the product.

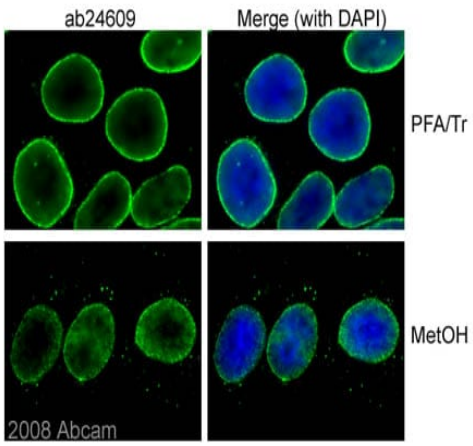


Immunocytochemistry/ Immunofluorescence - Anti-Nuclear Pore Complex Proteins antibody [Mab414] (ab24609)

This image is courtesy of an Abreview submitted by Dr Kirk McManus

ab24609 (1/200) staininig Nuclear Pore Complex Proteins in human RPE-1 cells (green). Cells were fixed in paraformaldehyde, permeabilised with Triton X100 and counterstained with DAPI in order to highlight the nucleus (blue). Please refer to abreview for further experimental details.

This image was generated using the ascites version of the product.

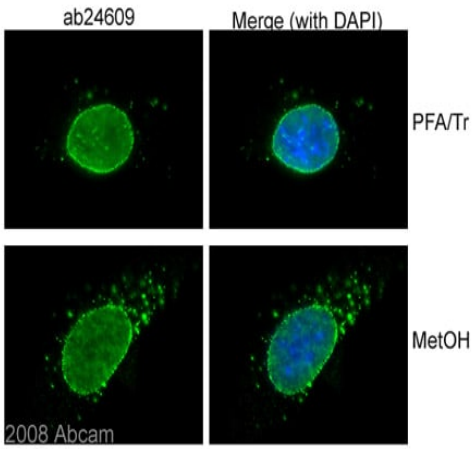


Immunocytochemistry/ Immunofluorescence - Anti-Nuclear Pore Complex Proteins antibody [Mab414] (ab24609)

Image and protocol kindly provided by Rosamaria Mangiacasale, Marilena Ciciarello and Patrizia Lavia, Univ Rome

ab24609 (1/500) staining Nuclear Pore Complex Proteins in human Hela Cells (green). Cells were fixed with Paraformaldehyde/Triton X-100 (10 min in PTEMF buffer (20mM PIPES, 1mM MgCl2, 10mM EGTA, 4% PFA) /0.2% Triton-X100 at room T°C) or Methanol (6 min in Methanol -20 °C , followed by 3 washes in 1x PBS) and counterstained with Dapi in order to highligh the nucleus (blue).

This image was generated using the ascites version of the product.



Immunocytochemistry/ Immunofluorescence - Anti-Nuclear Pore Complex Proteins antibody [Mab414] (ab24609)

Image and protocol kindly provided by Rosamaria Mangiacasale, Marilena Ciciarello and Patrizia Lavia, Univ Rome

ab24609 (1/500) staining Nuclear Pore Complex Proteins in murine NIH/3T3 Cells (green). Cells were fixed with Paraformaldehyde/Triton X-100 (10 min in PTEMF buffer (20mM PIPES, 1mM MgCl2, 10mM EGTA, 4% PFA) /0.2% Triton-X100 at room T°C) or Methanol (6 min in Methanol -20 °C , followed by 3 washes in 1x PBS) and counterstained with Dapi in order to highligh the nucleus (blue).

This image was generated using the ascites version of the product.

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