

**Nuclear Pore Complex Antibody**  
**Mouse monoclonal antibody**  
**Catalog # AN1164****Specification**

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**Nuclear Pore Complex Antibody - Product Information**

Application	IF
Reactivity	Human, Mouse, Rat
Host	Mouse
Clonality	monoclonal
Isotype	IgG1

**Nuclear Pore Complex Antibody - Additional Information**

Gene Name	Nuclear stain of multiple gene products including Nup62, Nup133
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**Target/Specificity**  
Yeast nuclear preparations.

**Dilution**  
IF~~ 1:50-1:100

**Format**  
Concentrated culture supernatant.

**Antibody Specificity**  
Reacts with nuclear pore complex proteins.

**Storage**  
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**  
Nuclear Pore Complex Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Shipping**  
Blue Ice

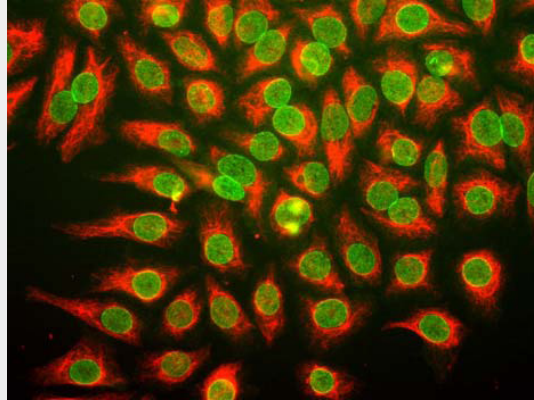
**Nuclear Pore Complex Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)

- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### **Nuclear Pore Complex Antibody - Images**



Immunostaining of HeLa cells with anti-nuclear pore complex antibody (green), and chicken anti-vimentin (red).

### **Nuclear Pore Complex Antibody - Background**

The nuclear pore complex (NPC) is a very large structure made up of at least 50 different proteins that span the double membrane of the nuclear envelope functioning as a gateway for macromolecular traffic between the cytoplasm and the nucleus (Nakielny and Dreyfuss, 1999). Discrete nuclear pore complex proteins or nucleoporins such as NUP98, NUP180 and p62 have been implicated in autoimmune disease and cancer. Patients with primary biliary cirrhosis (PBC) frequently produce autoantibodies against p62 and NUP180 (Wilken et al., 1993; Nesher et al., 2001) while NUP98 translocations have been found in patients with acute myelogenous leukemia (AML) (Jaju et al. 2001).

### **Nuclear Pore Complex Antibody - References**

- Nakielny S, Dreyfuss G (1999) Transport of proteins and RNAs in and out of the nucleus. *Cell* 99(7):677-690.
- Wilken N, Kossner U, Senecal JL, Scheer U, Dabauvalle MC (1993) Nup180, a novel nuclear pore complex protein localizing to the cytoplasmic ring and associated fibrils. *J Cell Biol* 123(6 pt 1):1345-54.
- Nesher G, Margalit R, Ashkenazi YJ (2001) Anti-nuclear envelope antibodies: Clinical associations. *Semin Arthritis Rheum* 30(5):313-20.
- Jaju RJ, Fidler C, Haas OA, Strickson AJ, Watkins F, Clark K, Cross NC, Cheng JF, Aplan PD, Kearney L, Boultonwood J, Wainscoat JS (2001) A novel gene, NSD1, is fused to NUP98 in the t(5;11)(q35;p15.5) in de novo childhood acute myeloid leukemia. *Blood* 98(4):1264-7.