

**Lamin A/C Antibody**  
**Mouse monoclonal antibody**  
**Catalog # AN1244**

**Specification**

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**Lamin A/C Antibody - Product Information**

Application	WB, IF
Primary Accession	<a href="#">P02545</a>
Reactivity	Bovine, Human, Mouse, Rat
Host	Mouse
Clonality	monoclonal
Isotype	IgG1
Calculated MW	64, 74 KDa

**Lamin A/C Antibody - Additional Information**

Gene ID	4000
Gene Name	LMNA
<b>Other Names</b>	
Prelamin-A/C, Lamin-A/C, 70 kDa lamin, Renal carcinoma antigen NY-REN-32, LMNA, LMN1	

**Target/Specificity**

Recombinant full length human lamin C expressed in and purified from E. Coli.

**Dilution**

WB~~ 1:5000  
IF~~ 1:1000

**Format**

Affinity purified from tissue culture supernatant.

**Antibody Specificity**

Specific for the ~64 and 74k lamin A and C 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**

Lamin A/C Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Shipping**

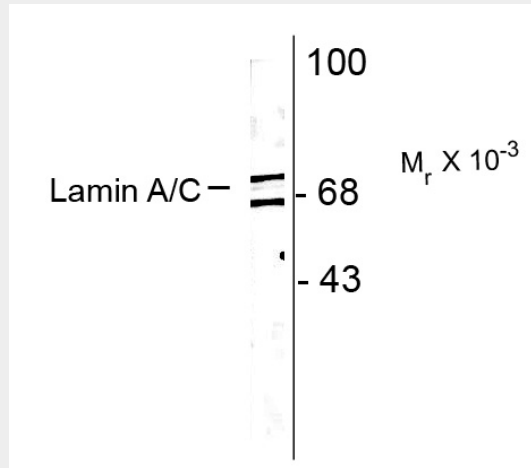
Blue Ice

**Lamin A/C Antibody - Protocols**

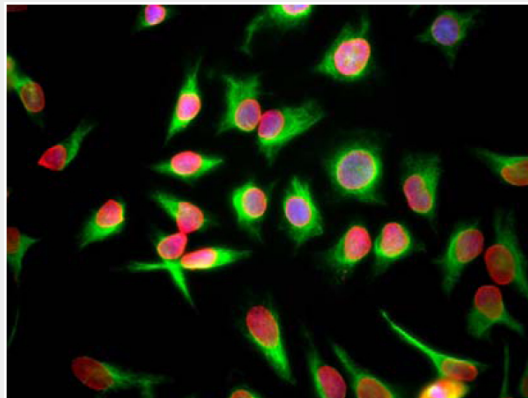
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### Lamin A/C Antibody - Images



Western blot of HeLa lysate showing specific immunolabeling of the ~ 64k and 74k lamin A/C proteins.



Immunofluorescence of HeLa cells showing strong nuclear lamina staining of lamin A/C in red and vimentin in green.

### Lamin A/C Antibody - Background

Lamins A and C are nuclear structural proteins that are part of the intermediate filament family and coded for by the same gene (LMNA). Lamins A and C are nearly identical except for their carboxy termini (McKeon et al., 1986). Mutations in the gene encoding lamins A/C have been shown to cause a variety of diseases including autosomal dominant Emery-Dreifuss muscular dystrophy (Bonne et al., 1995), autosomal dominant limb-girdle muscular dystrophy (Muchir et al., 2000) and Charcot-Marie-Tooth disorder type 2 (De Sandre-Giavonni et al., 2002).

### Lamin A/C Antibody - References

Bonne G, Di Barletta MR, Varnous S, Bécane HM, Hammouda EH, Merlini L, Muntoni F, Greenberg CR, Gary F, Urtizberea JA, Duboc D, Fardeau M, Toniolo D, Schwartz K. (1999) Mutations in the gene encoding lamin A/C cause autosomal dominant Emery-Dreifuss muscular dystrophy. *Nat Genet.* 21(3):285-8

De Sandre-Giovannoli A, Chaouch M, Kozlov S, Vallat JM, Tazir M, Kassouri N, Szepetowski P, Hammadouche T, Vandenberghe A, Stewart CL, Grid D, Lévy N. (2002) Homozygous defects in LMNA, encoding lamin A/C nuclear-envelope proteins, cause autosomal recessive axonal neuropathy in human (Charcot-Marie-Tooth disorder type 2) and mouse. *Am J Hum Genet.* 70(3):726-36.

McKeon FD, Kirschner MW, Caput (1986) Homologies in both primary and secondary structure between nuclear envelope and intermediate filament proteins. *Nature* 319(6053):463-8.

Muchir A, Bonne G, van der Kooi AJ, van Meegen M, Baas F, Bolhuis PA, de Visser M, Schwartz K. (2000) Identification of mutations in the gene encoding lamins A/C in autosomal dominant limb girdle muscular dystrophy with atrioventricular conduction disturbances (LGMD1B). *Hum Mol Genet.* (9):1453-9.