

# Lamin A/C Monoclonal Antibody (mab636)

## Product Details

Size	200 µL
Species	Bovine, Human, Pig
Published Species	Artificial Control, Human
Expression System	Mouse / IgG2b
Class	Monoclonal
Type	Antibody
Clone	mab636
Conjugate	Unconjugated
Immunogen	Porcine lamin preparation.
Form	Liquid
Concentration	Conc. Not Determined
Storage buffer	tissue culture supernatant
Contains	0.05% sodium azide
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_325377

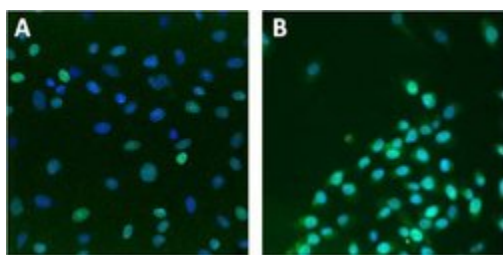
Applications	Tested Dilution	Publications
Immunocytochemistry (ICC)	1:100	4 Publications
Immunofluorescence (IF)	1:100	2 Publications
Immunohistochemistry (Frozen) (IHC (F))	1:100	-
Western Blot (WB)	1:100 - 1:2000	10 Publications

## Product Specific Information

MA3-1000 detects lamin A/C from human, bovine, porcine and canine samples. MA3-1000 has been successfully used in Western blot, immunofluorescence and immunohistochemistry procedures. By Western blot, this antibody detects ~ 70 and 65 kDa proteins corresponding to lamin A and C, respectively, from HeLa cell extract. This antibody can also be used for immunofluorescence and immunohistochemistry for subcellular localization experiments. MA3-1000 has been widely used for detection of lamin A/C control in siRNA experiments. The MA3-1000 antigen is porcine lamin preparation.

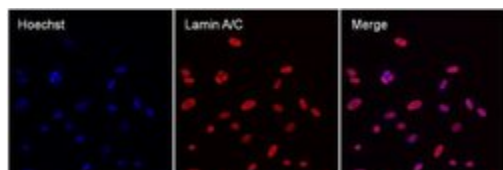
## Product Images For Lamin A/C Monoclonal Antibody (mab636)

### Lamin A/C Antibody (MA3-1000) in IF

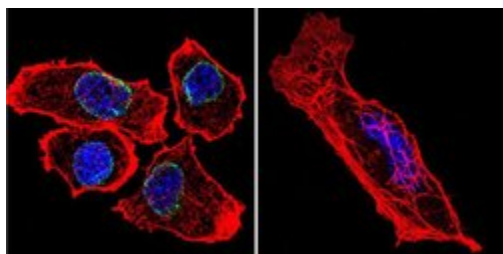


Immunofluorescent analysis of Lamin A/C (green) in untreated U2-OS cells (A) or HeLa cells (B). Formalin fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 10 minutes at room temperature. Cells were then blocked with 0.3% BSA for 15 minutes at room temperature. Cells were then probed with a mouse monoclonal antibody recognizing Lamin A/C (Product # MA3-1000), at a dilution of 1:100 for at least 1 hour at room temperature. Cells were then washed with PBS and incubated with DyLight 488 goat-anti-mouse secondary antibody (Product # 35503) at a dilution of 1:400 for 30 minutes at room temperature. Nuclei (blue) were stained with Hoechst 33342 dye (Product # 62249). Images were taken on a Thermo Scientific ArrayScan at 20X magnification.

### Lamin A/C Antibody (MA3-1000) in IF



Immunofluorescent analysis of Lamin A/C (red) in MDCK cells. The cells were permeabilized with 0.1% Triton X-100 in PBS for 15 minutes, and blocked with 3% BSA in PBS (Product # 37525) for 15 minutes at room temperature. Cells were stained with a Lamin A/C mouse monoclonal antibody (Product # MA3-1000), at a dilution 1:100 in blocking buffer for at least 1 hour at room temperature, and then incubated with a Rabbit anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 594 conjugate (Product # A27027) at a dilution of 1:1000 for 30 minutes at room temperature (red). Nuclei (blue) were stained with Hoechst 33342 dye (Product # 62249). Images were taken on a Thermo Scientific ToxInsight Instrument at 20X magnification.



### Lamin A/C Antibody (MA3-1000) in IF

Immunofluorescent analysis of Lamin A/C using Lamin A/C Monoclonal Antibody (mab636) (Product # MA3-1000) shows staining in U251 Cells. Lamin A/C (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown. Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were probed without (control) or with an antibody recognizing Lamin A/C (Product # MA3-1000) at a dilution of 1:200 overnight at 4 °C, washed with PBS and incubated with a DyLight-488 conjugated secondary antibody (Product # 35552 for GAR, Product # 35503 for GAM). Images were taken at 60X magnification.

[View more figures on thermofisher.com](http://thermofisher.com)

## 16 References

### Western Blot (10)

#### Oncoimmunology

##### Upregulation of tryptophanyl-tRNA synthetase adapts human cancer cells to nutritional stress caused by tryptophan degradation.

"MA3-1000 was used in Western Blotting to elucidate the importance of WARS upregulation in the prevention of excessive tryptophan depletion in tryptophan-degrading cancer cells."

Authors: Adam I, Dewi DL, Mooiweer J, Sadik A, Mohapatra SR, Berdel B, Keil M, Sonner JK, Thedieck K, Rose AJ, Platten M, Heiland I, Trump S, Opitz CA

**Species**  
Human  
Artificial Control

**Dilution**  
1:1,000  
Not Cited

**Year**  
2021

#### Cancer and metabolism

##### Protein interaction and functional data indicate MTHFD2 involvement in RNA processing and translation.

"Published figure using Lamin A/C monoclonal antibody (Product # MA3-1000) in Western Blot"

Authors: Koufaris C, Nilsson R

**Species**  
Human

**Dilution**  
1:4,000

**Year**  
2020

[View more WB references on thermofisher.com](#)

### Immunocytochemistry (4)

#### Journal of drug design and research

##### Exploring Modifications of an HIV-1 Capsid Inhibitor: Design, Synthesis, and Mechanism of Action.

"MA3-1000 was used in Immunocytochemistry-immunofluorescence to investigate bioisosteric modification of the the HIV-1 capsid inhibitor PF-3450074 scaffold as a first step in redeveloping this compound."

Authors: Xu JP, Francis AC, Meuser ME, Mankowski M, Ptak RG, Rashad AA, Melikyan GB, Cocklin S

**Species**  
Human

**Dilution**  
Not Cited

**Year**  
2020

#### Cells

##### Inhibition of JAK-STAT Signaling with Baricitinib Reduces Inflammation and Improves Cellular Homeostasis in Progeria Cells.

"MA3-1000 was used in Immunocytochemistry to report that the inhibition of the JAK-STAT pathway with baricitinib, a Food and Drug Administration-approved JAK1/2 inhibitor, restored cellular homeostasis, delayed senescence and decreased proinflammatory markers in HGPS cells."

Authors: Liu C, Arnold R, Henriques G, Djabali K

**Species**  
Human

**Dilution**  
Not Cited

**Year**  
2019

[View more ICC references on thermofisher.com](#)

### More applications with references on thermofisher.com

### IF (2)

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