

# [KO Validated] Lamin A/C Mouse mAb

Catalog No.: A26876 **KO Validated**

## Basic Information

### Observed MW

68/72kDa

### Calculated MW

74kDa

### Category

Primary antibody

### Applications

WB,IHC-P,IF/ICC,ELISA

### Cross-Reactivity

Human, Mouse, Rat

### CloneNo number

AMC50041

## Background

The protein encoded by this gene is part of the nuclear lamina, a two-dimensional matrix of proteins located next to the inner nuclear membrane. The lamin family of proteins make up the matrix and are highly conserved in evolution. During mitosis, the lamina matrix is reversibly disassembled as the lamin proteins are phosphorylated. Lamin proteins are thought to be involved in nuclear stability, chromatin structure and gene expression. Vertebrate lamins consist of two types, A and B. Alternative splicing results in multiple transcript variants. Mutations in this gene lead to several diseases: Emery-Dreifuss muscular dystrophy, familial partial lipodystrophy, limb girdle muscular dystrophy, dilated cardiomyopathy, Charcot-Marie-Tooth disease, and Hutchinson-Gilford progeria syndrome.

## Recommended Dilutions

<b>WB</b>	1:5000 - 1:20000
<b>IHC-P</b>	1:2000 - 1:20000
<b>IF/ICC</b>	1:200 - 1:800
<b>ELISA</b>	Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

## Contact

	400-999-6126
	cn.market@abclonal.com.cn
	www.abclonal.com.cn

## Immunogen Information

### Gene ID

4000

### Swiss Prot

P02545

### Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 403-572 of human Lamin A/C (NP\_733821.1).

### Synonyms

FPL; IDC; LFP; CDDC; EMD2; FPLD; HGPS; LDP1; LMN1; LMNC; MADA; PRO1; CDCD1; CMD1A; FPLD2; LMNL1; CMT2B1; LGMD1B

## Product Information

### Source

Mouse

### Isotype

IgG

### Purification

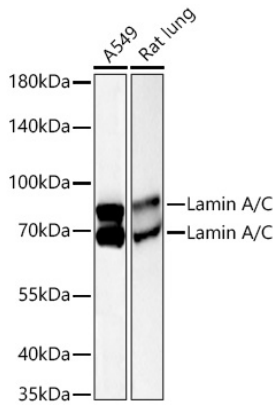
Affinity purification

### Storage

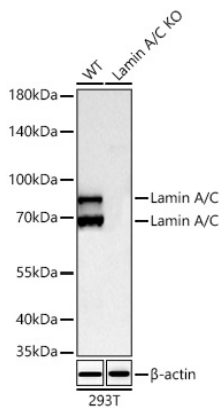
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.09% Sodium azide,0.05% BSA,50% glycerol,pH7.3.

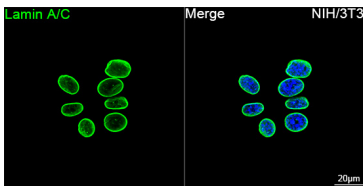
## Validation Data



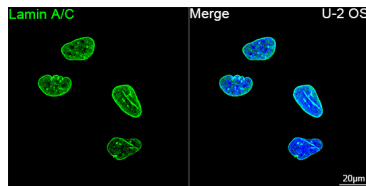
Western blot analysis of various lysates using [KO Validated] Lamin A/C Mouse mAb (A26876) at 1:10000 dilution incubated overnight at 4°C.  
 Secondary antibody: HRP Goat Anti-Mouse IgG (H+L) antibody (AS003) at 1:10000 dilution.  
 Lysates/proteins: 25 µg per lane.  
 Blocking buffer: 3% nonfat dry milk in TBST.  
 Detection: ECL Basic Kit (RM00020).  
 Exposure time: 45s.



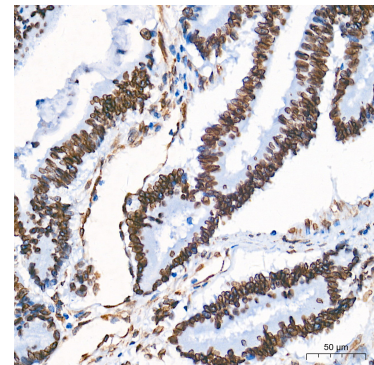
Western blot analysis of lysates from wild type (WT) and Lamin A/C knockout (KO) 293T cells using [KO Validated] Lamin A/C Mouse mAb (A26876) at 1:10000 dilution incubated overnight at 4°C.  
 Secondary antibody: HRP Goat Anti-Mouse IgG (H+L) antibody (AS003) at 1:10000 dilution.  
 Lysates/proteins: 25 µg per lane.  
 Blocking buffer: 3% nonfat dry milk in TBST.  
 Detection: ECL Basic Kit (RM00020).  
 Exposure time: 90s.



Confocal imaging of NIH/3T3 cells using [KO Validated] Lamin A/C Mouse mAb (A26876, dilution 1:200) followed by a further incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



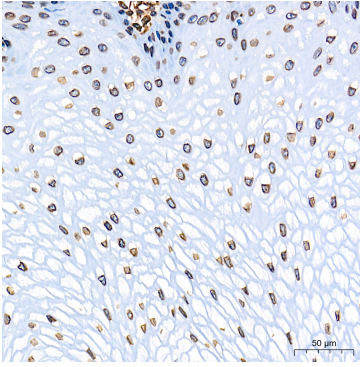
Confocal imaging of U-2 OS cells using [KO Validated] Lamin A/C Mouse mAb (A26876, dilution 1:200) followed by a further incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



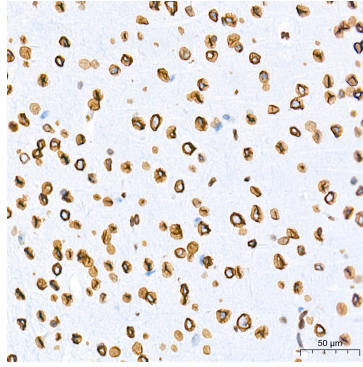
Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma tissue using [KO Validated] Lamin A/C Mouse mAb (A26876) at a dilution of 1:10000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer(pH 9.0) prior to IHC staining.

## Validation Data

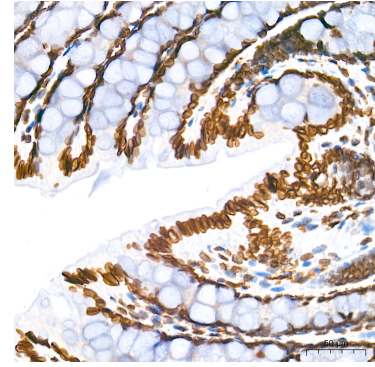
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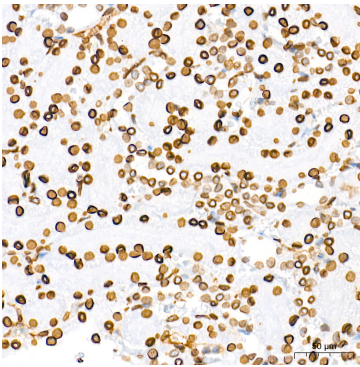
Immunohistochemistry analysis of paraffin-embedded Human esophagus tissue using [KO Validated] Lamin A/C Mouse mAb (A26876) at a dilution of 1:10000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer(pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse brain tissue using [KO Validated] Lamin A/C Mouse mAb (A26876) at a dilution of 1:10000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer(pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse colon tissue using [KO Validated] Lamin A/C Mouse mAb (A26876) at a dilution of 1:10000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer(pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat kidney tissue using [KO Validated] Lamin A/C Mouse mAb (A26876) at a dilution of 1:10000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer(pH 9.0) prior to IHC staining.