

A19524

Leader in Biomolecular Solutions for Life Science



## [KO Validated] Lamin A/C Rabbit mAb

Catalog No.: A19524

**KO Validated**

**Recombinant**

**11 Publications**

### Basic Information

#### Observed MW

68kDa/72kDa

#### Calculated MW

74kDa

#### Category

SMab Recombinant Monoclonal Antibody

#### Applications

WB,IHC-P,IF/ICC,IP,ELISA

#### Cross-Reactivity

Human,Mouse,Rat

#### CloneNo number

ARC5001-08

### 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

**WB** 1:10000 - 1:300000

**IHC-P** 1:50 - 1:400

**IF/ICC** 1:50 - 1:200

**IP** 0.5µg-4µg antibody for  
200µg-400µg extracts of  
whole cells

### 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; /C

### Contact



[www.abclonal.com](http://www.abclonal.com)

### Product Information

#### Source

Rabbit

#### Isotype

IgG

#### Purification

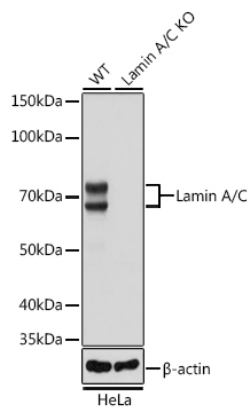
Affinity purification

#### Storage

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

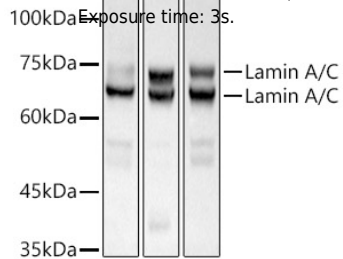
Buffer: PBS with 0.01% thimerosal,0.05% BSA,50% glycerol,pH7.3.

## Validation Data

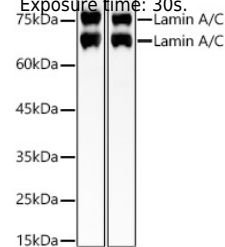


Western blot analysis of lysates from wild type (WT) and Lamin A/C knockout (KO) HeLa cells, using [KO Validated] Lamin A/C Rabbit mAb (A19524) at 1:50000 dilution.  
 Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
 Lysates/proteins: 25µg per lane.  
 Blocking buffer: 3% nonfat dry milk in TBST.  
 Detection: ECL Basic Kit (RM00020).  
 Exposure time: 1s.

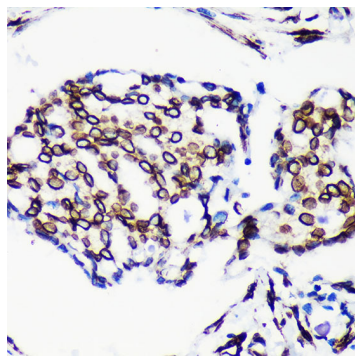
Western blot analysis of various lysates using [KO Validated] Lamin A/C Rabbit mAb (A19524) at 1:100000 dilution.  
 Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
 Lysates/proteins: 25µg per lane.  
 Blocking buffer: 3% nonfat dry milk in TBST.  
 Detection: ECL Basic Kit (RM00020).  
 Exposure time: 3s.



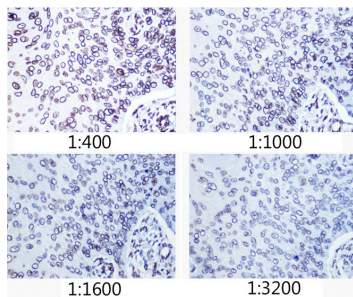
Western blot analysis of various lysates, using [KO Validated] Lamin A/C Rabbit mAb (A19524) at 1:300000 dilution.  
 Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
 Lysates/proteins: 25µg per lane.  
 Blocking buffer: 3% nonfat dry milk in TBST.  
 Detection: ECL Basic Kit (RM00020).  
 Exposure time: 30s.



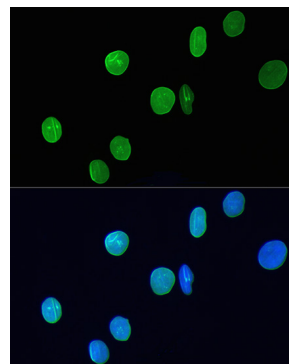
## Validation Data



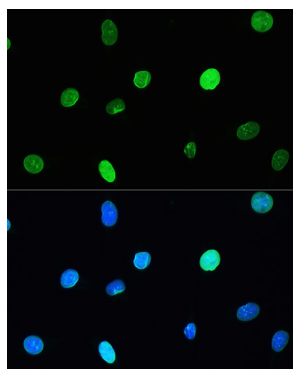
Immunohistochemistry analysis of paraffin-embedded Human breast cancer using [KO Validated] Lamin A/C Rabbit mAb (A19524) at dilution of 1:200 (40x lens). Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.



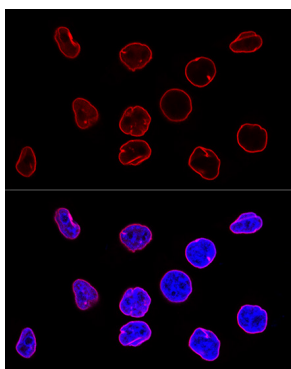
Immunohistochemistry analysis of paraffin-embedded human esophageal cancer using [KO Validated] Lamin A/C Rabbit mAb (A19524) at dilution of 1:400 - 1:3200 (40x lens). Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.



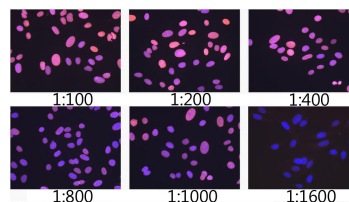
Immunofluorescence analysis of H9C2 cells using [KO Validated] Lamin A/C Rabbit mAb (A19524) at dilution of 1:200. Blue: DAPI for nuclear staining.



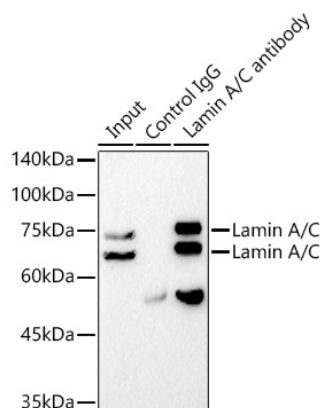
Immunofluorescence analysis of L929 cells using [KO Validated] Lamin A/C Rabbit mAb (A19524) at dilution of 1:200. Blue: DAPI for nuclear staining.



Confocal immunofluorescence analysis of HeLa cells using [KO Validated] Lamin A/C Rabbit mAb (A19524) at dilution of 1:100. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of U-2 OS cells using [KO Validated] Lamin A/C Rabbit mAb (A19524) at dilution of 1:100 - 1:1600. Blue: DAPI for nuclear staining.



Immunoprecipitation analysis of 300  $\mu$ g extracts from PC-12 cells using 3  $\mu$ g [KO Validated] Lamin A/C Rabbit mAb (A19524). Western blot was performed from the immunoprecipitate using [KO Validated] Lamin A/C Rabbit mAb (A19524) at a dilution of 1:100000.