

## Lamin A/C Polyclonal Antibody

Catalog No. E-AB-60043

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

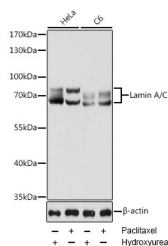
### Description

<b>Reactivity</b>	Human, Mouse, Rat
<b>Immunogen</b>	Recombinant fusion protein of human Lamin C (NP_005563.1).
<b>Host</b>	Rabbit
<b>Isotype</b>	IgG
<b>Purification</b>	Affinity purification
<b>Conjugation</b>	Unconjugated
<b>Buffer</b>	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

### Applications Recommended Dilution

<b>WB</b>	1:500-1:2000
<b>IHC</b>	1:50-1:200
<b>IF</b>	1:50-1:200

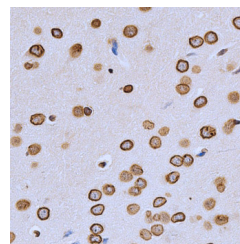
### Data



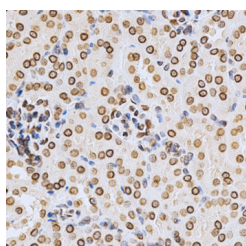
Western blot analysis of extracts of various cell lines using Lamin A/C Polyclonal Antibody at dilution of 1:1000. HeLa cells were treated by Hydroxyurea (4 mM) at 37°C for 20 hours or treated by Paclitaxel (100 nM/ml) at 37°C for 20 hours. C6 cells were treated by Hydroxyurea (4 mM) at 37°C for 20 hours or treated by Paclitaxel (100 nM) at 37°C for 20 hours.

**Observed Mw:69kDa/72kDa**

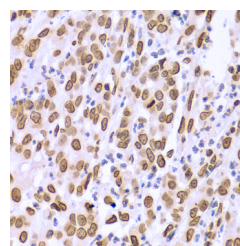
**Calculated Mw:62-74kDa**



Immunohistochemistry of paraffin-embedded Rat brain using Lamin A/C Polyclonal Antibody at dilution of 1:200 (40x lens).



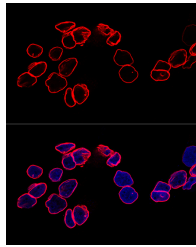
Immunohistochemistry of paraffin-embedded Mouse kidney using Lamin A/C Polyclonal Antibody at



Immunohistochemistry of paraffin-embedded Human gastric cancer using Lamin A/C Polyclonal

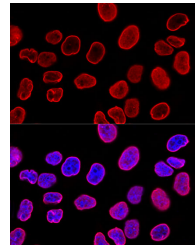
### For Research Use Only

dilution of 1:200 (40x lens).



Confocal immunofluorescence analysis of A-431 cells using Lamin A/C Polyclonal Antibody at dilution of 1:200. Blue: DAPI for nuclear staining.

Antibody at dilution of 1:100 (40x lens).



Confocal immunofluorescence analysis of HeLa cells using Lamin A/C Polyclonal Antibody at dilution of 1:200. Blue: DAPI for nuclear staining.

## Preparation & Storage

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

## Background

The nuclear lamina consists of 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.

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