**Product Datasheet**

# LMNA Antibody

Catalog No: #32042

Package Size: #32042-1 50ul #32042-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

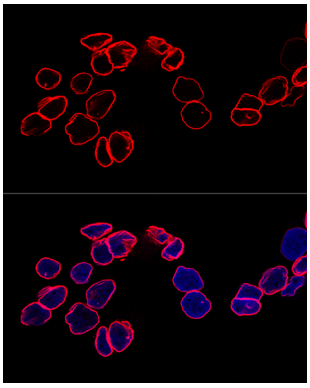
## Description

| | |
|---|---|
| Product Name | LMNA Antibody |
| Host Species | Rabbit |
| Clonality | Polyclonal |
| Purification | Antibodies were purified by affinity purification using immunogen. |
| Applications | WB,IHC,IF |
| Species Reactivity | Human,Mouse,Rat |
| Specificity | The antibody detects endogenous level of total LMNA protein. |
| Immunogen Type | Recombinant Protein |
| Immunogen Description | Recombinant protein of human LMNA. |
| Target Name | LMNA |
| Other Names | LMNA; CDCD1; CDDC; CMD1A; CMT2B1 |
| Accession No. | Swiss-Prot:P02545NCBI Gene ID:4000 |
| Uniprot | P02545 |
| GeneID | 4000; |
| SDS-PAGE MW | 65KD |
| Concentration | 1.0mg/ml |
| Formulation | Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| Storage | Store at -20°C |

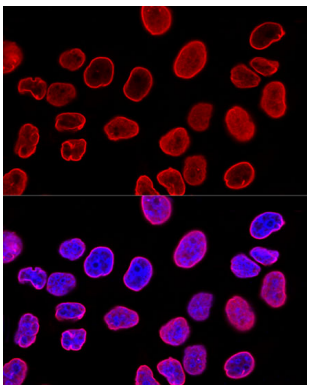
## Application Details

WB□1:500 - 1:2000IHC□1:50 - 1:200IF□1:50 - 1:200IP□1:50 - 1:200

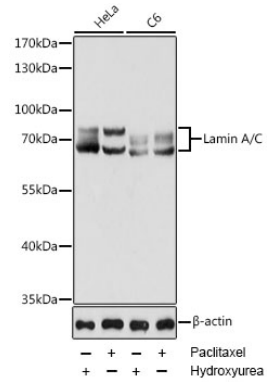
## Images



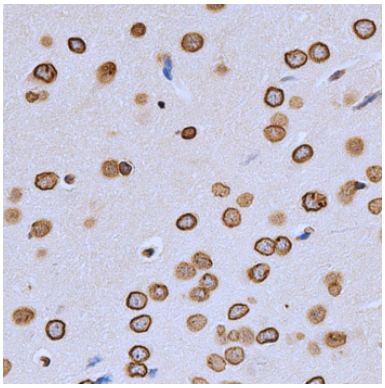
Confocal immunofluorescence analysis of A-431 cells using Lamin A/C Polyclonal at dilution of 1:200. Blue: DAPI for nuclear staining.



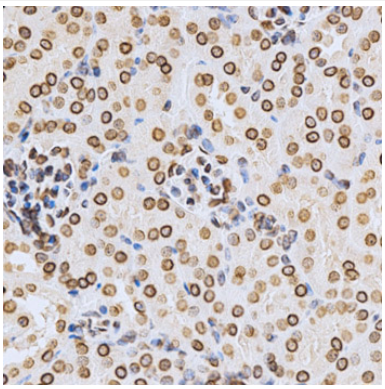
Confocal immunofluorescence analysis of HeLa cells using Lamin A/C Polyclonal at dilution of 1:200. Blue: DAPI for nuclear staining.



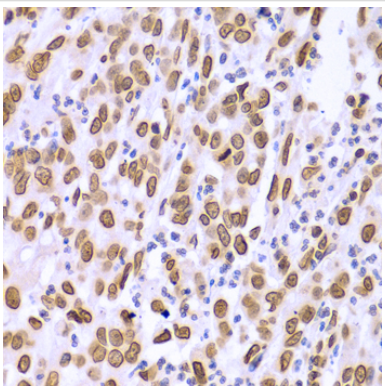

Western blot analysis of extracts of various cell lines, using Lamin A/C at 1:1000 dilution. HeLa cells were treated by Hydroxyurea (4 mM) at 37°C for 20 hours or treated by Paclitaxel (100 nM/ml) at 37°C for 20 hours. C6 cells were treated by Hydroxyurea (4 mM) at 37°C for 20 hours or treated by Paclitaxel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



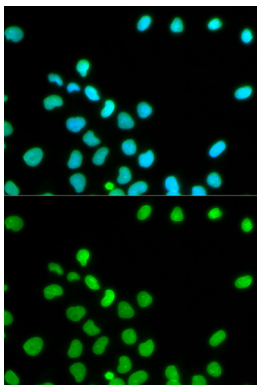
Immunohistochemistry of paraffin-embedded rat brain using Lamin A/C at dilution of 1:200 (40x lens).



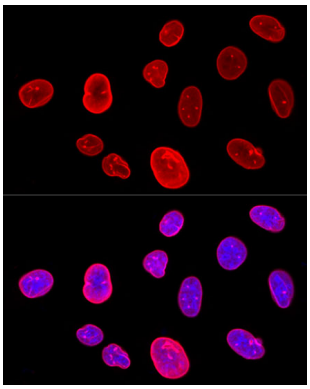
Immunohistochemistry of paraffin-embedded mouse kidney using Lamin A/C at dilution of 1:200 (40x lens).



Immunohistochemistry of paraffin-embedded Human gastric cancer using Lamin A/C at dilution of 1:100 (40x lens).



Immunofluorescence analysis of HeLa cells using Lamin A/C . Blue: DAPI for nuclear staining.



Confocal immunofluorescence analysis of U-2 OS cells using Lamin A/C Polyclonal at dilution of 1:200. Blue: DAPI for nuclear staining.

## Background

Lamins are nuclear membrane structural components that are important in maintaining normal cell functions such as cell cycle control, DNA replication, and chromatin organization (1-3). Lamin A/C is cleaved by caspase-6 and serves as a marker for caspase-6 activation. During apoptosis, lamin A/C is specifically cleaved into a large (41-50 kDa) and a small (28 kDa) fragment (3,4). The cleavage of lamins results in nuclear disregulation and cell death (5,6).

Note: This product is for in vitro research use only