

# Lamin-B1 Rabbit mAb

Catalog No.: AC057 **Recombinant**

## Basic Information

### Observed MW

70kDa/45kDa/68KD/68KD

### Calculated MW

66kDa

### Category

Loading control antibody

### Applications

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

### Cross-Reactivity

Human, Mouse, Rat

### CloneNo number

ARC70485


## Background

This gene encodes one of the two B-type lamin proteins and is a component of the nuclear lamina. A duplication of this gene is associated with autosomal dominant adult-onset leukodystrophy (ADLD). Alternative splicing results in multiple transcript variants.

## Recommended Dilutions

<b>WB</b>	1:25000 - 1:150000
<b>IHC-P</b>	1:5000 - 1:50000
<b>IF/ICC</b>	1:800 - 1:3200
<b>IP</b>	0.5µg-4µg antibody for 200µg-400µg extracts of whole cells
<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](mailto:cn.market@abclonal.com.cn)

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

## Immunogen Information

### Gene ID

4001

### Swiss Prot

P20700

### Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 397-586 of human Lamin-B1 (NP\_005564.1).

### Synonyms

LMN; ADLD; LMN2; LMNB; MCPH26

## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

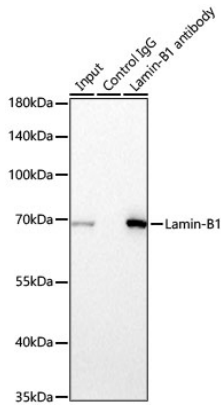
Affinity purification

### Storage

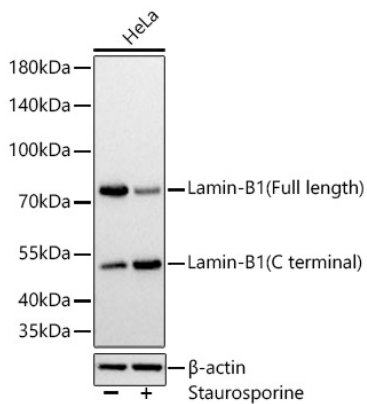
Store at -20°C. Avoid freeze / thaw cycles.

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

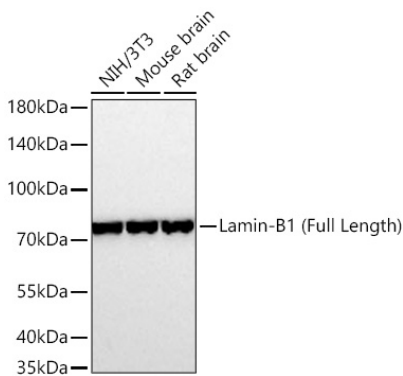
## Validation Data



Immunoprecipitation of Lamin-B1 from 300 µg extracts of NIH/3T3 cells was performed using 0.5 µg of Lamin-B1 Rabbit mAb (AC057). Rabbit IgG isotype control (AC042) was used to precipitate the Control IgG sample. IP samples were eluted with 1X reducing Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using Lamin-B1 Rabbit mAb (AC057) at a dilution of 1:5000.

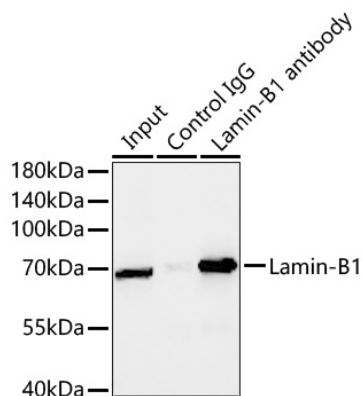


Western blot analysis of lysates from HeLa cells using Lamin-B1 Rabbit mAb (AC057) at 1:25000 dilution incubated overnight at 4°C. HeLa cells were treated by Staurosporine (1 µM) for 3 hours. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 30 µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 1s.

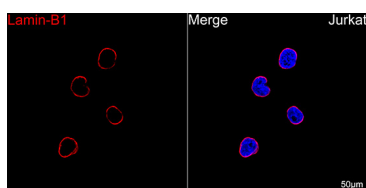


Western blot analysis of various lysates using Lamin-B1 Rabbit mAb (AC057) at 1:25000 dilution incubated overnight at 4°C. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 30s.

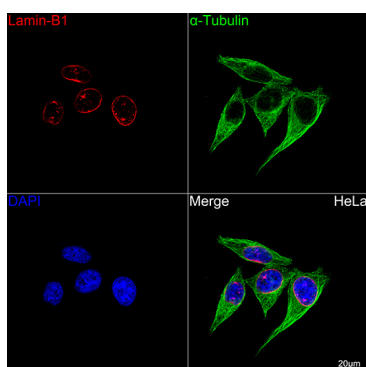
## Validation Data



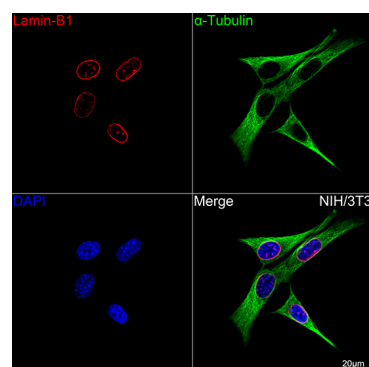
Immunoprecipitation of Lamin-B1 from 300 µg extracts of HeLa cells was performed using 1 µg of Lamin-B1 Rabbit mAb (AC057). Rabbit IgG isotype control (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1X reducing Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using Lamin-B1 Rabbit mAb (AC057) at a dilution of 1 : 5000.



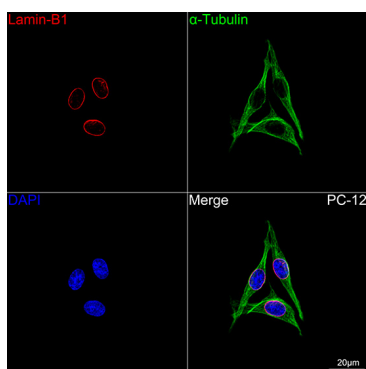
Confocal imaging of Jurkat cells using Lamin-B1 Rabbit mAb (AC057, dilution 1:800) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



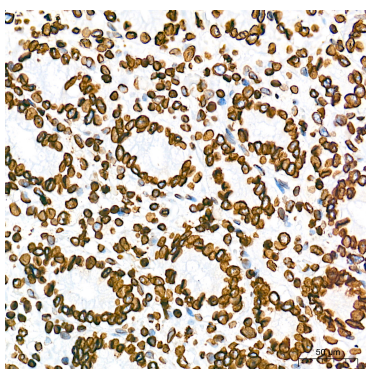
Confocal imaging of HeLa cells using Lamin-B1 Rabbit mAb (AC057, dilution 1:800) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



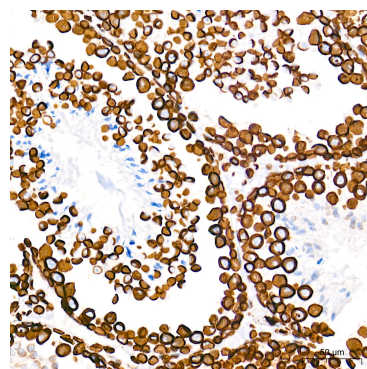
Confocal imaging of NIH/3T3 cells using Lamin-B1 Rabbit mAb (AC057, dilution 1:800) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



Confocal imaging of PC-12 cells using Lamin-B1 Rabbit mAb (AC057, dilution 1:800) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was



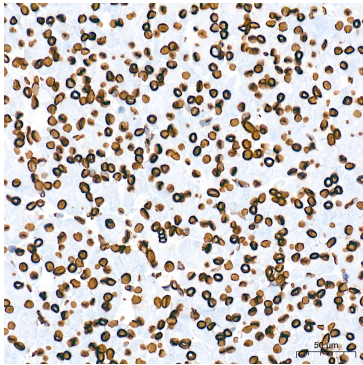
Immunohistochemistry analysis of paraffin-embedded Human colon tissue using Lamin-B1 Rabbit mAb (AC057) at a dilution of 1:16000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer(pH 9.0) prior to IHC staining.



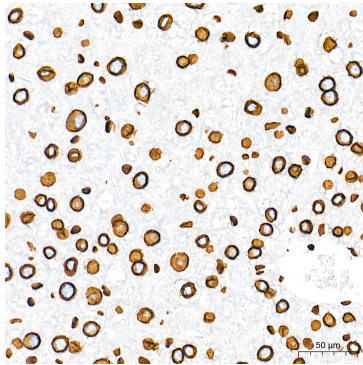
Immunohistochemistry analysis of paraffin-embedded Mouse testis tissue using Lamin-B1 Rabbit mAb (AC057) at a dilution of 1:16000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer(pH 9.0) prior to IHC staining.

## Validation Data

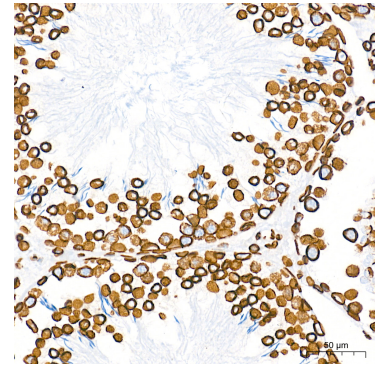
used for nuclear staining (Blue). Objective: 100x.



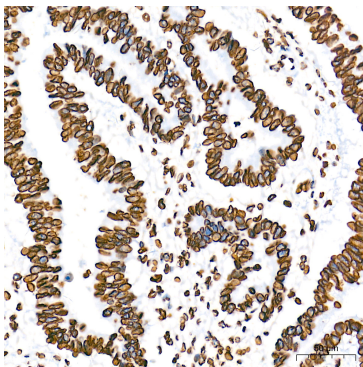
Immunohistochemistry analysis of paraffin-embedded Human pancreas tissue using Lamin-B1 Rabbit mAb (AC057) at a dilution of 1:16000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer(pH 9.0) prior to IHC staining.



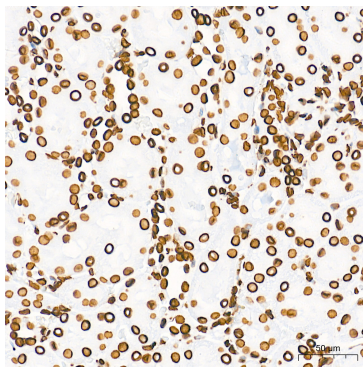
Immunohistochemistry analysis of paraffin-embedded Mouse liver tissue using Lamin-B1 Rabbit mAb (AC057) at a dilution of 1:16000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer(pH 9.0) prior to IHC staining.



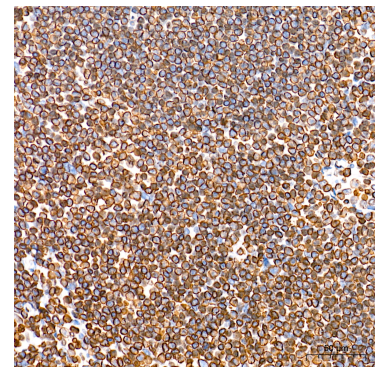
Immunohistochemistry analysis of paraffin-embedded Rat testis tissue using Lamin-B1 Rabbit mAb (AC057) at a dilution of 1:16000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer(pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma tissue using Lamin-B1 Rabbit mAb (AC057) at a dilution of 1:16000 (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 Lamin-B1 Rabbit mAb (AC057) at a dilution of 1:16000 (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 Human tonsil tissue using Lamin-B1 Rabbit mAb (AC057) at a dilution of 1:16000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer(pH 9.0) prior to IHC staining.