

Lamin-B1 Rabbit mAb

Catalog No.: AC057 **Recombinant**

Basic Information

Observed MW

70kDa/45kDa

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

WB	1:25000 - 1:150000
IHC-P	1:5000 - 1:50000
IF/ICC	1:800 - 1:3200
IP	0.5µg-4µg antibody for 200µg-400µg extracts of whole cells
ELISA	Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

Contact

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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

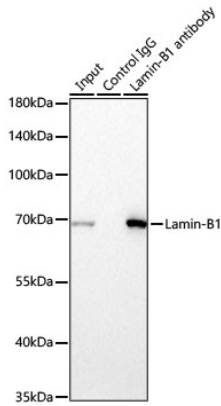
Affinity purification

Storage

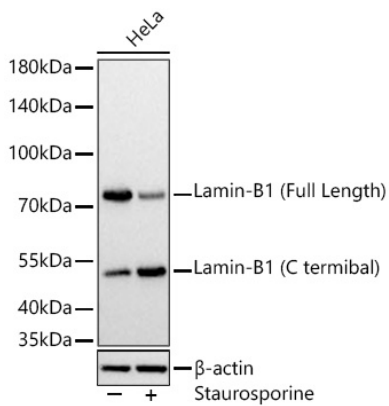
Store at -20°C. Avoid freeze / thaw cycles.

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

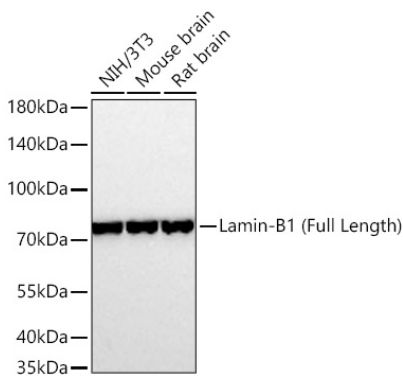
Validation Data



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 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.

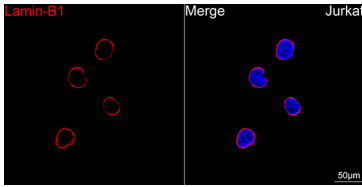


Western blot analysis of lysates from HeLa cells using Lamin-B1 Rabbit mAb (AC057) at 1:25000 dilution incubated overnight at 4°C. HeLa cells were treated by Staurosporine (1 µM) for 3 hour. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 30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

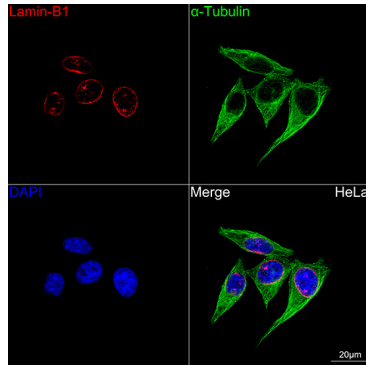


Western blot analysis of various lysates using Lamin-B1 Rabbit mAb (AC057) at 1:25000 dilution incubated overnight at 4°C. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: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

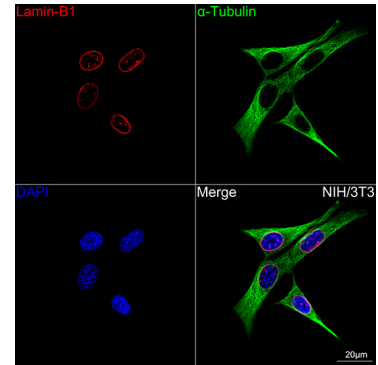
Validation Data



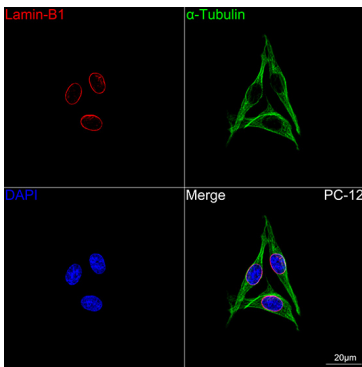
Confocal imaging of Jurkat cells using Lamin-B1 Rabbit mAb (AC057, dilution 1:800) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



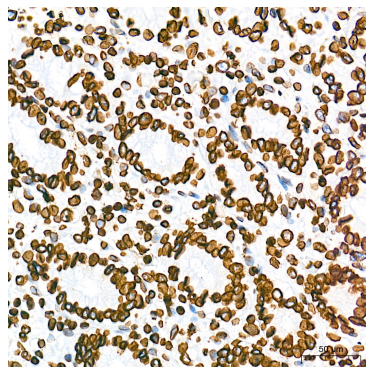
Confocal imaging of HeLa cells using Lamin-B1 Rabbit mAb (AC057, dilution 1:800) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α -tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated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



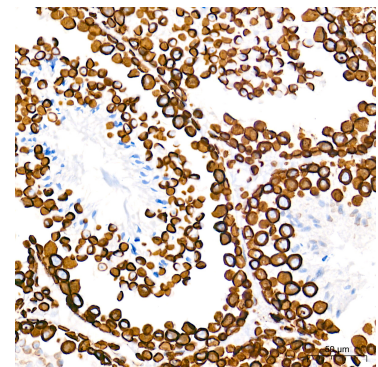
Confocal imaging of NIH/3T3 cells using Lamin-B1 Rabbit mAb (AC057, dilution 1:800) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α -tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated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



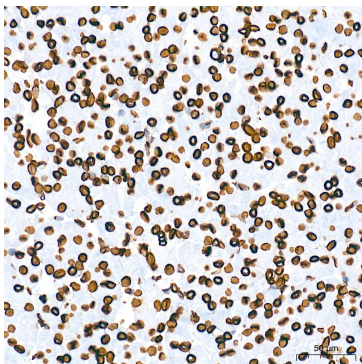
Confocal imaging of PC-12 cells using Lamin-B1 Rabbit mAb (AC057, dilution 1:800) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α -tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



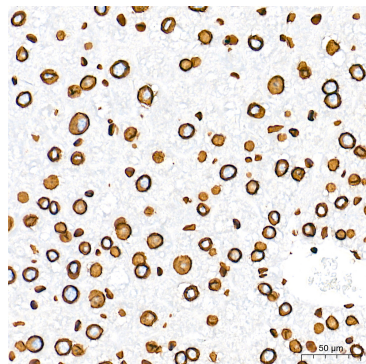
Immunohistochemistry analysis of paraffin-embedded Human colon tissue using Lamin-B1 Rabbit mAb (AC057) at a dilution of 1:16000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer(pH 9.0) prior to IHC staining.



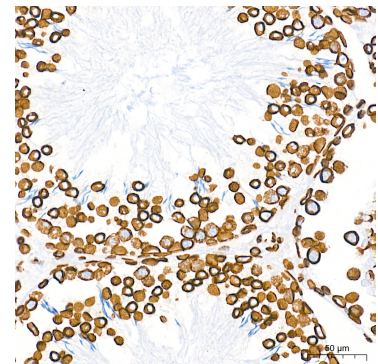
Immunohistochemistry analysis of paraffin-embedded Mouse testis tissue using Lamin-B1 Rabbit mAb (AC057) at a dilution of 1:16000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer(pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human pancreas tissue using



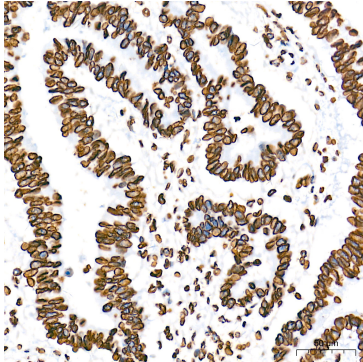
Immunohistochemistry analysis of paraffin-embedded Mouse liver tissue using Lamin-B1



Immunohistochemistry analysis of paraffin-embedded Rat testis tissue using Lamin-B1

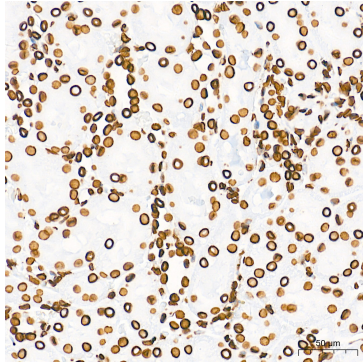
Validation Data

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.



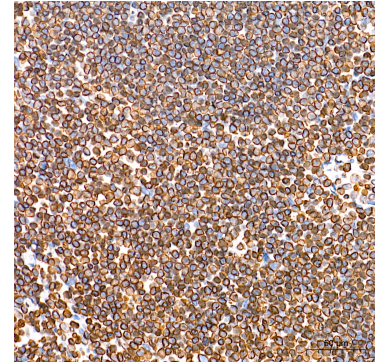
Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma tissue using Lamin-B1 Rabbit mAb (AC057) at a dilution of 1:16000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer(pH 9.0) prior to IHC staining.

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.

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.