[KO Validated] Lamin A/C Monoclonal Antibody

CAB19524

Description

This [KO Validated] Lamin A/C Monoclonal Antibody is supplied as a kit for advanced applications. The kit includes Bradford Reagent to quantify total protein concentration for accurate sample normalization (Optional).

Product Information

SKU:	CAB19524
Contents:	20 µL, 100 µL Bradford Reagent: 1 vial (2ml)
Category:	Monoclonal Antibody
Synonyms:	FPL, IDC, LFP, CDDC, EMD2, FPLD, HGPS, LDP1, LMN1, LMNC, MADA, PRO1, CDCD1, CMD1A, FPLD2, LMNL1, CMT2B1, LGMD1B, /C
Clone:	ARC5001-08
Applications:	WB IHC-P IF/ICC IP ELISA
Conjugation:	Unconjugated
Reactivity:	Human, Mouse, Rat

Antibody Data

Gene ID:	4000
Uniprot:	AB_2862647
Host Species:	Rabbit
Purification:	Affinity purification
Observed MW:	68kDa/72kDa
Calculated MW:	74kDa

Preparation & Storage

Storage: Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

Store Bradford Reagent at Room Temperature for 1 Year.

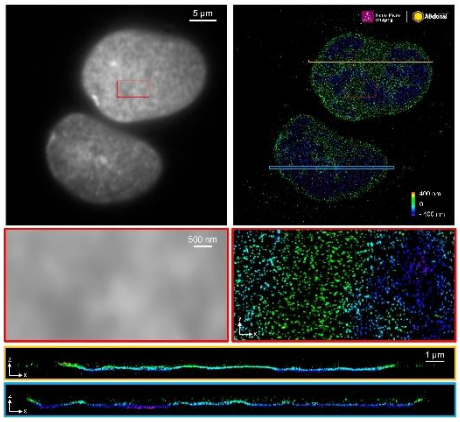
Positive Sample: HeLa, A-549, NIH/3T3, PC-12

Recommended Dilutions:

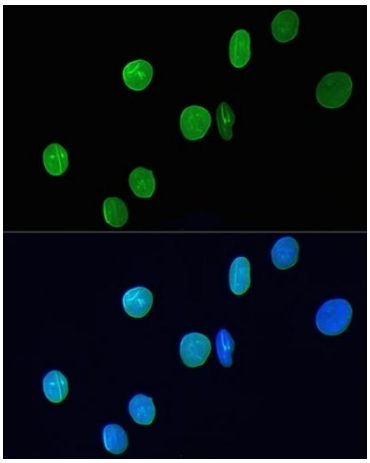
WB	1:50000 - 1:300000
IHC-P	1:1000 - 1:4000
IF/ICC	1:100 - 1:800
IP	0.5µg-4µg antibody for 200µg-400µg extracts of whole cells
ELISA	Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

Protein Quantification (Optional): To quantify total protein levels, use the Bradford Reagent included in this kit. Visit https://www.assaygenie.com/bradford-protein-assay-protocol/ to view the full protocol

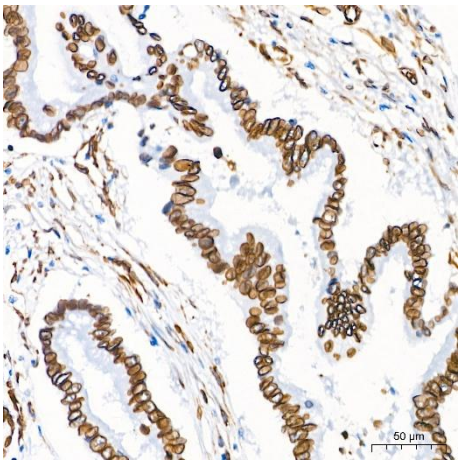
Validation Data



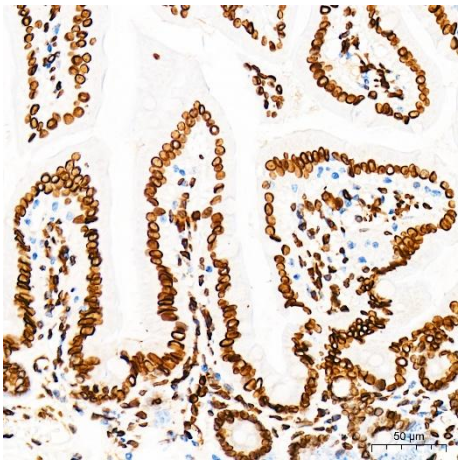
The STORM super-resolution (SR) imaging of U-2 OS cells using [KO Validated] Lamin A/C Rabbit mAb (CAB19524, ABclonal) at dilution of 1:200 with 3% paraformaldehyde (PFA) +0.1% glutaraldehyde (GA) fixation. The immunostaining was performed by Full Automatic Immunofluorescence Workflow System (Workflow Ultra300, Nano-Micro imaging, China). Image was performed with Single-Molecule Localization Super-Resolution Microscopy (STORM Ultra300, Nano-Micro imaging, China). We acknowledge Nano-Micro imaging Biotechnology Co., Ltd. in SR image processing and kindly providing this image.



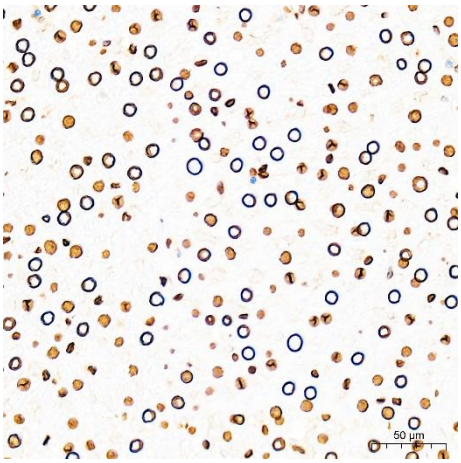
Immunofluorescence analysis of H9C2 cells using [KO Validated] Lamin A/C Rabbit mAb (CAB19524) at dilution of 1:200. Blue: DAPI for nuclear staining.



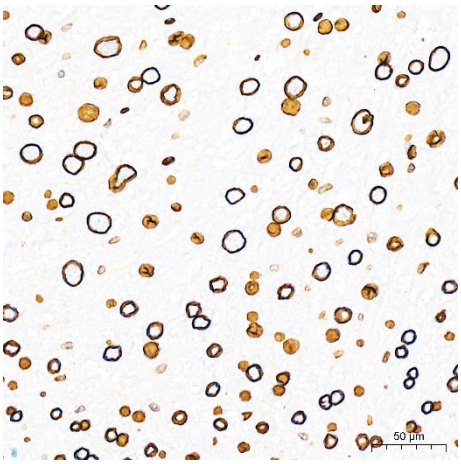
Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma tissue using [KO Validated] Lamin A/C Rabbit mAb (CAB19524) at a dilution of 1:1300 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.



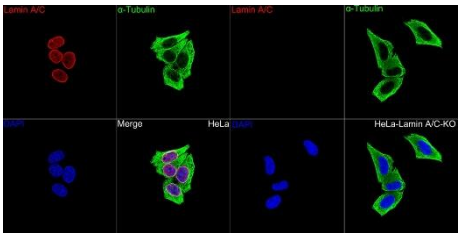
Immunohistochemistry analysis of paraffin-embedded Mouse intestin tissue using [KO Validated] Lamin A/C Rabbit mAb (CAB19524) at a dilution of 1:1300 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.



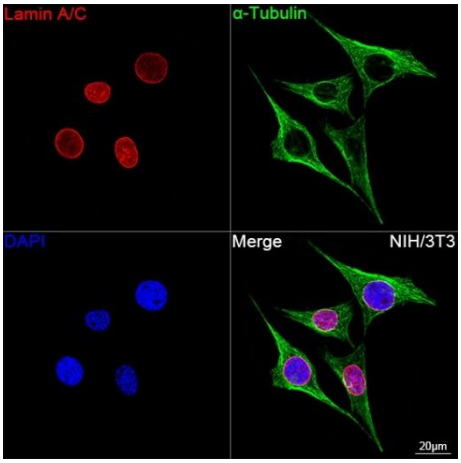
Immunohistochemistry analysis of paraffin-embedded Mouse liver tissue using [KO Validated] Lamin A/C Rabbit mAb (CAB19524) at a dilution of 1:1300 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.



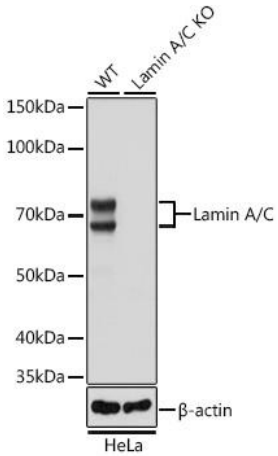
Immunohistochemistry analysis of paraffin-embedded Rat liver tissue using [KO Validated] Lamin A/C Rabbit mAb (CAB19524) at a dilution of 1:1300 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.



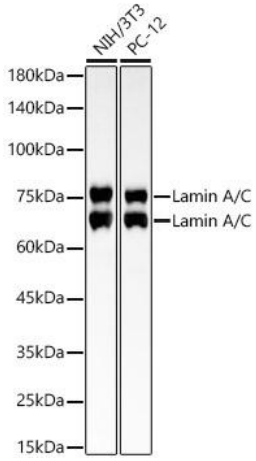
Confocal imaging of HeLa cells and Lamin A/C knockout(KO) HeLa cells using [KO Validated] Lamin A/C Rabbit mAb (CAB19524, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (CABS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (CABC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



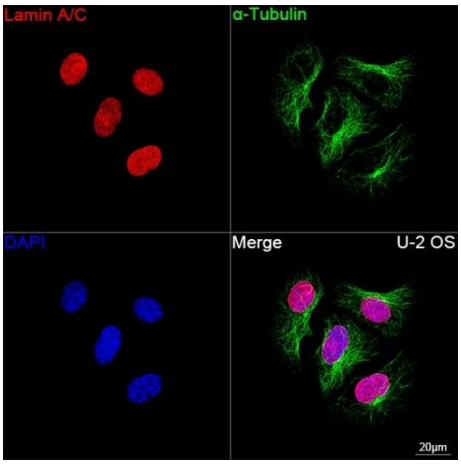
Confocal imaging of NIH/3T3 using [KO Validated] Lamin A/C Rabbit mAb (CAB19524, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (CABS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (CABC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



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 (CAB19524) at 1:50000 dilution incubated overnight at 4℃. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (CABS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (AbGn00020). Exposure time: 1s.



Western blot analysis of various lysates using [KO Validated] Lamin A/C Rabbit mAb (CAB19524) at 1:300000 dilution incubated overnight at 4℃. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (CABS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (AbGn00020). Exposure time: 30s.



Confocal imaging of U-2 OS cells using [KO Validated] Lamin A/C Rabbit mAb (CAB19524, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (CABS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (CABC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.