A19524

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[KO Validated] Lamin A/C Rabbit mAb

Catalog No.: A19524 KO Validated Recombinant 11 Publications

Basic Information

Observed MW
68kDa/72kDa

Calculated MW
74kDa

Category
SMab Recombinant Monoclonal Antibody

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

Cross-Reactivity
Human,Mouse,Rat

CloneNo number
ARC5001-08

Background

The protein encoded by this gene is part of the nuclear lamina, 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.

Recommended Dilutions

WB	1:10000 - 1:600000
IHC-P	1:50 - 1:400
IF/ICC	1:50 - 1:200
IP	0.5μg-4μg antibody for 200μg-400μg extracts of whole cells

Immunogen Information

Gene ID
4000

Swiss Prot
P02545

Immunogen
Recombinant fusion protein containing a sequence corresponding to amino acids 403-572 of human Lamin A/C (NP_733821.1).

Synonyms
FPL; IDC; LFP; CDDC; EMD2; FPLD; HGPS; LDP1; LMN1; LMNC; MADA; PRO1; CDCD1; CMD1A; FPLD2; LMNL1; CMT2B1; LGMD1B; /C

Contact

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Product Information

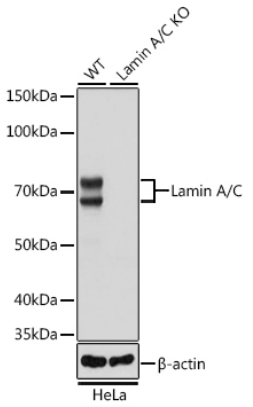
Source
Rabbit

Isotype
IgG

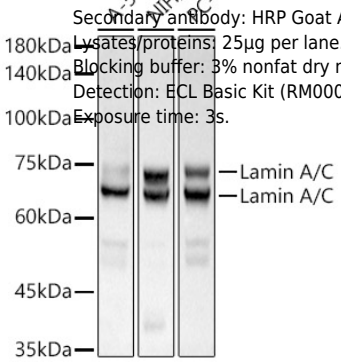
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.01% thimerosal,0.05% BSA,50% glycerol,pH7.3.

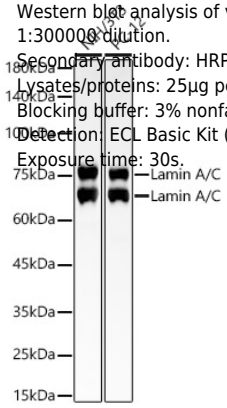
Validation Data



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 (A19524) at 1:50000 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 1s.

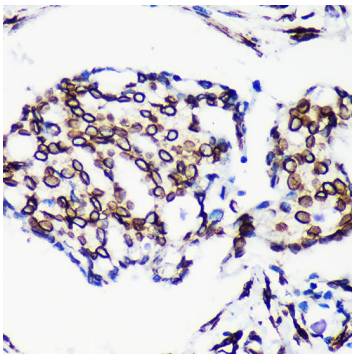


Western blot analysis of various lysates using [KO Validated] Lamin A/C Rabbit mAb (A19524) at 1:100000 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 3s.

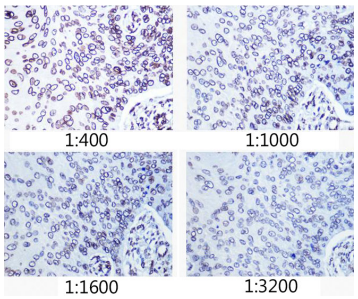


Western blot analysis of various lysates, using [KO Validated] Lamin A/C Rabbit mAb (A19524) at 1:300000 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 30s.

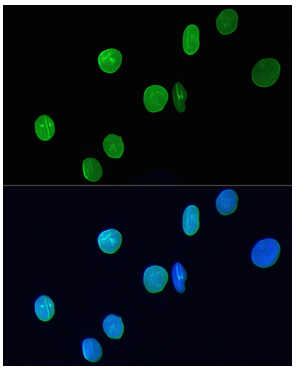
Validation Data



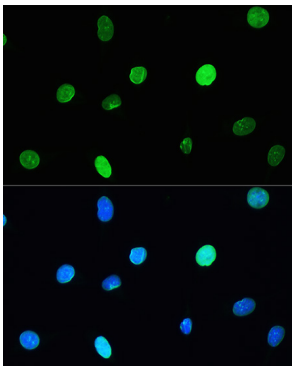
Immunohistochemistry analysis of Lamin A/C in paraffin-embedded Human breast cancer using [KO Validated] Lamin A/C Rabbit mAb (A19524) at dilution of 1:200 (40x lens).Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.



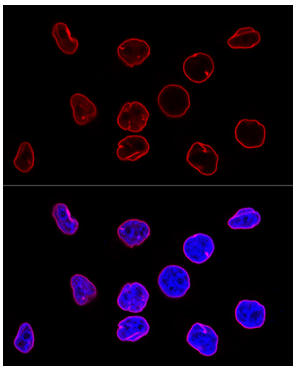
Immunohistochemistry analysis of Lamin A/C in paraffin-embedded human esophageal cancer using [KO Validated] Lamin A/C Rabbit mAb (A19524) at dilution of 1:400 - 1:3200 (40x lens).Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.



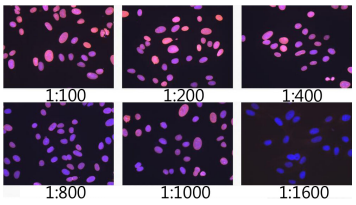
Immunofluorescence analysis of H9C2 cells using [KO Validated] Lamin A/C Rabbit mAb (A19524) at dilution of 1:200. Blue: DAPI for nuclear staining.



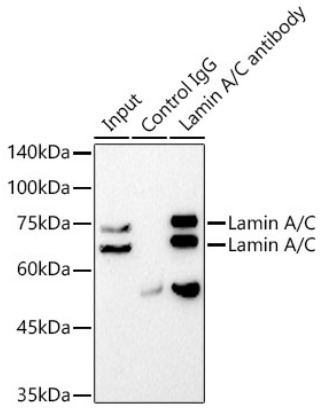
Immunofluorescence analysis of L929 cells using [KO Validated] Lamin A/C Rabbit mAb (A19524) at dilution of 1:200. Blue: DAPI for nuclear staining.



Confocal immunofluorescence analysis of HeLa cells using [KO Validated] Lamin A/C Rabbit mAb (A19524) at dilution of 1:100. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of U-2 OS cells using [KO Validated] Lamin A/C Rabbit mAb (A19524) at dilution of 1:100 - 1:1600. Blue: DAPI for nuclear staining.



Immunoprecipitation analysis of 300 µg extracts from PC-12 cells using 3 µg [KO Validated] Lamin A/C Rabbit mAb (A19524). Western blot was performed from the immunoprecipitate using [KO Validated] Lamin A/C Rabbit mAb (A19524) at a dilution of 1:100000.