

Lamin A/C (Phospho Ser392) (PTR1133) Mouse mAb

CatalogNo: YP1876

Key Features

Host Species

- Mouse

Reactivity

- Human, Mouse, Rat, Monkey

Applications

- WB, IHC, IF, ELISA

MW

- 63kD, 74kD (Calculated)
63kD, 74kD (Observed)

Isotype

- IgG1, Kappa

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation PBS, 50% glycerol, 0.05% Proclin 300, 0.05% BSA

Recommended Dilution Ratios

WB 1:500-2000

IHC 1:200-1:1000

IF 1:100-500

ELISA 1:1000-5000

Basic Information

Clonality Monoclonal

Clone Number PTR1133

Immunogen Information

Immunogen Synthesized peptide derived from human protein. AA range: 350-450

Specificity This antibody detects endogenous levels of Lamin A/C (phospho Ser392) protein.

Target Information

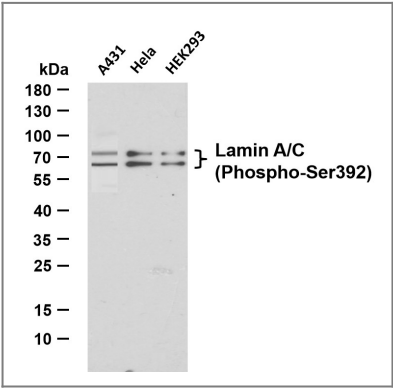
Gene name	LMNA LMN1
Protein Name	Prelamin-A/C [Cleaved into: Lamin-A/C (70 kDa lamin) (Renal carcinoma antigen NY-REN-32)]

Organism	Gene ID	UniProt ID
Human	4000;	P02545;
Mouse	16905;	P48678;
Rat	60374;	P48679;

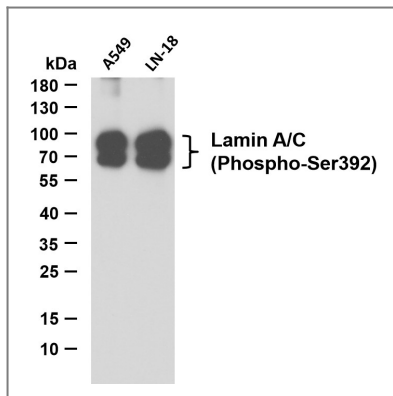
Tissue specificity In the arteries , prelamins-A/C accumulation is not observed in young healthy vessels but is prevalent in medial vascular smooth muscle cells (VSMCs) from aged individuals and in atherosclerotic lesions , where it often colocalizes with senescent and degenerate VSMCs. Prelamin-A/C expression increases with age and disease. In normal aging , the accumulation of prelamins-A/C is caused in part by the down-regulation of ZMPSTE24/FACE1 in response to oxidative stress.

Function Lamins are components of the nuclear lamina , a fibrous layer on the nucleoplasmic side of the inner nuclear membrane , which is thought to provide a framework for the nuclear envelope and may also interact with chromatin. Lamin A and C are present in equal amounts in the lamina of mammals. Recruited by DNA repair proteins XRCC4 and IFFO1 to the DNA double-strand breaks (DSBs) to prevent chromosome translocation by immobilizing broken DNA ends . Plays an important role in nuclear assembly , chromatin organization , nuclear membrane and telomere dynamics. Required for normal development of peripheral nervous system and skeletal muscle and for muscle satellite cell proliferation . Required for osteoblastogenesis and bone formation . Also prevents fat infiltration of muscle and bone marrow , helping to maintain the volume and strength of skeletal muscle and bone . Required for cardiac homeostasis . ; Prelamin-A/C can accelerate smooth muscle cell senescence. It acts to disrupt mitosis and induce DNA damage in vascular smooth muscle cells (VSMCs) , leading to mitotic failure , genomic instability , and premature senescence.

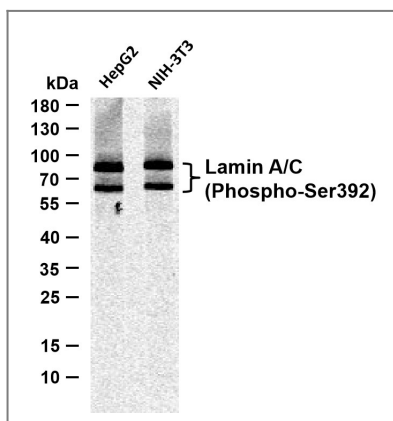
Validation Data



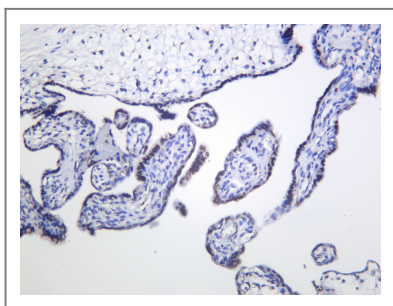
Various whole cell lysates were separated by 10% SDS-PAGE, and the membrane was blotted with anti-Lamin A/C (Phospho-Ser392) (PTR1133) antibody. The HRP-conjugated Goat anti-Mouse IgG (H + L) antibody was used to detect the antibody. Lane 1: A431 Lane 2: HeLa Lane 3: HEK293



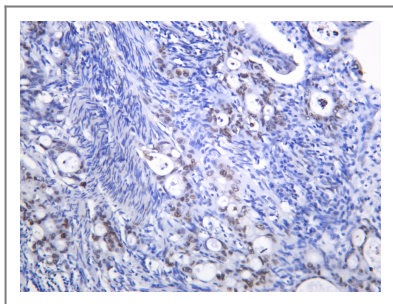
Various whole cell lysates were separated by 10% SDS-PAGE, and the membrane was blotted with anti-Lamin A/C (Phospho-Ser392) (PTR1133) antibody. The HRP-conjugated Goat anti-Mouse IgG (H + L) antibody was used to detect the antibody. Lane 1: A549 Lane 2: LN18



Various whole cell lysates were separated by 10% SDS-PAGE, and the membrane was blotted with anti-Lamin A/C (Phospho-Ser392) (PTR1133) antibody. The HRP-conjugated Goat anti-Mouse IgG (H + L) antibody was used to detect the antibody. Lane 1: HepG2 Lane 2: NIH-3T3



Human placenta was stained with anti-Lamin A/C (Phospho Ser392) (PTR1133) Mouse antibody



Human colon carcinoma was stained with anti-Lamin A/C (Phospho Ser392) (PTR1133) Mouse antibody

Contact information

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Please scan the QR code to access additional product information:
Lamin A/C (Phospho Ser392) (PTR1133) Mouse mAb

