

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.

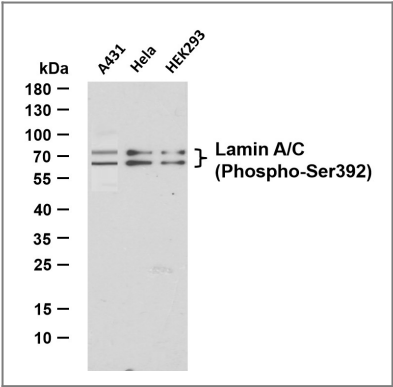
Target Information

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 ;

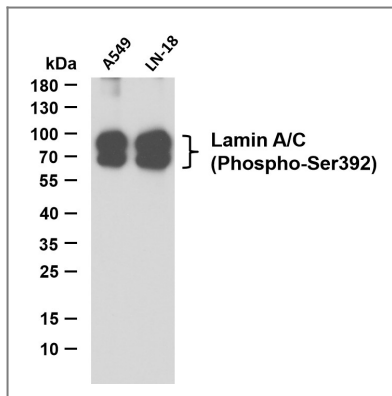
Tissue specificity In the arteries, prelamin-A/C accumulation is not observed in young healthy vessels but is prevalent in medial vascular smooth muscle cells (VSMCs) from aged individuals and in atherosclerotic lesions, where it often colocalizes with senescent and degenerate VSMCs. Prelamin-A/C expression increases with age and disease. In normal aging, the accumulation of prelamin-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.

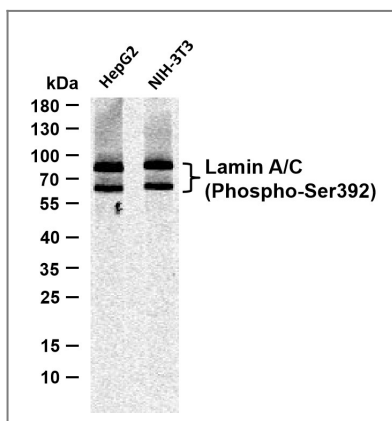
Validation Data



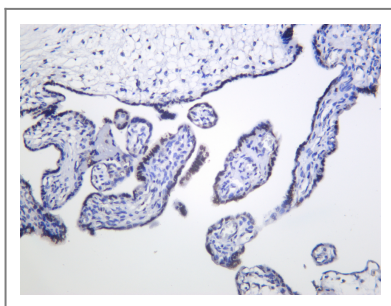
Various whole cell lysates were separated by 10% SDS-PAGE, and the membrane was blotted with anti-Lamin A/C (Phospho-Ser392) (PTR1133) antibody. The HRP-conjugated Goat anti-Mouse IgG (H + L) antibody was used to detect the antibody. Lane 1: A431 Lane 2: HeLa Lane 3: HEK293



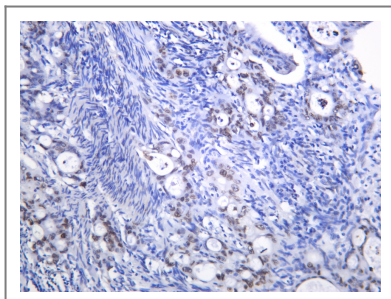
Various whole cell lysates were separated by 10% SDS-PAGE, and the membrane was blotted with anti-Lamin A/C (Phospho-Ser392) (PTR1133) antibody. The HRP-conjugated Goat anti-Mouse IgG (H + L) antibody was used to detect the antibody. Lane 1: A549 Lane 2: LN18



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

