

Anti-Lamin A/C Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

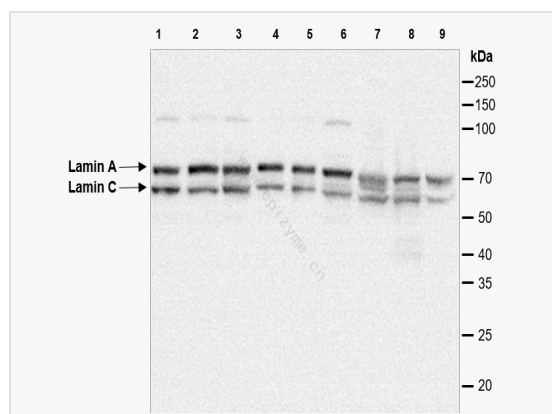
Catalog # R011826

Product Information

Application	WB, ELISA, IF (Cell)/ICC
Reactivity	Mouse, Rat, Human
Dilution	WB 1:1,000~1:10,000; IF 1:100
Host	Rabbit
Clonality	Monoclonal
Clone No.	32K72K58
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human Lamin A/C
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-Lamin A/C antibody [32K72K58] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	LMNA, LMN1, Prelamin-A/C.
Calculated MW	Calculated MW: 74 kDa,63 kDa; Observed MW: 74 kDa,63 kDa
Uniprot ID	P02545
Gene ID	4000
Background	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. Play an important role in nuclear assembly, chromatin organization, nuclear membrane and telomere dynamics. 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.



Western Blot - Anti-Lamin A/C Rabbit mAb [32K72K58]

All lanes: R011826 at 1:1,000 dilution

Lane 1: HeLa (human cervix adenocarcinoma epithelial cell) whole cell lysates

Lane 2: A549 (human non-small cell lung cancer epithelial cell) whole cell lysates

Lane 3: HepG2 (human hepatocellular carcinoma epithelial cell) whole cell lysates

Lane 4: SCC-9 (human tongue squamous carcinoma epithelial cell) whole cell lysates

Lane 5: U2OS (human osteosarcoma epithelial cell) whole cell lysates

Lane 6: SW620 (human colorectal carcinoma epithelial cell) whole cell lysates

Lane 7: Rat kidney whole tissue lysates

Lane 8: Rat spleen whole tissue lysates

Lane 9: Balb/c mouse liver whole tissue lysates

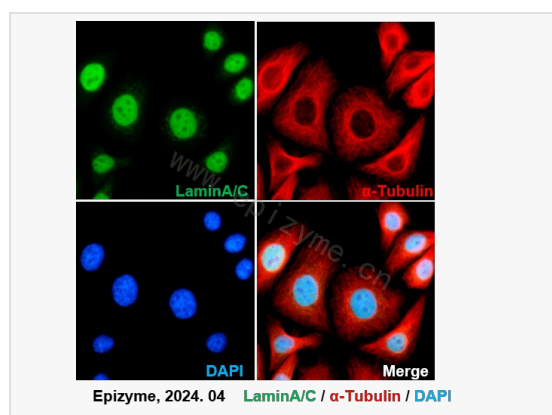
Lysates/proteins at 10 µg per lane.

Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution

Predicted band size: 63 kDa, 74 kDa

Observed band size: 63 kDa, 74 kDa

Developed using the ECL technique (Cat. No. SQ201).



Immunofluorescence - Anti-Lamin A/C Rabbit mAb [32K72K58]

Sample: HeLa cells

The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.

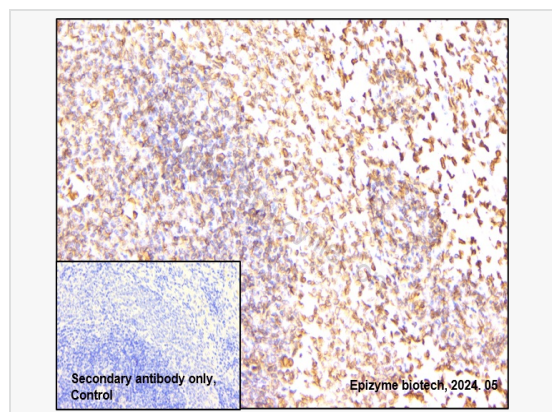
Primary antibodies: R011826 at 1:100 dilution and α-tubulin Mouse Monoclonal

Antibody (Cat. No. LF209) at 1:100 dilution

Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and

Goat anti-Mouse (CY3) at 1:1,000 dilution (shown in red)

Nuclei were stained with DAPI (shown in blue).



Immunohistochemistry - Anti-Lamin A/C Rabbit mAb [32K72K58]

Sample: Paraformaldehyde-fixed, paraffin rat spleen tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R011826 at 1:200 dilution

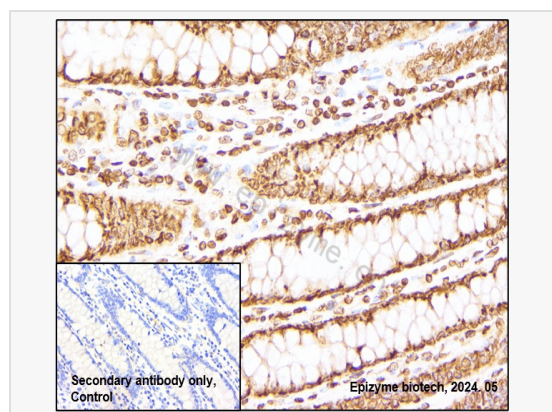
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-Lamin A/C Rabbit mAb [32K72K58]

Sample: Paraformaldehyde-fixed, paraffin human colorectal carcinoma tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R011826 at 1:200 dilution

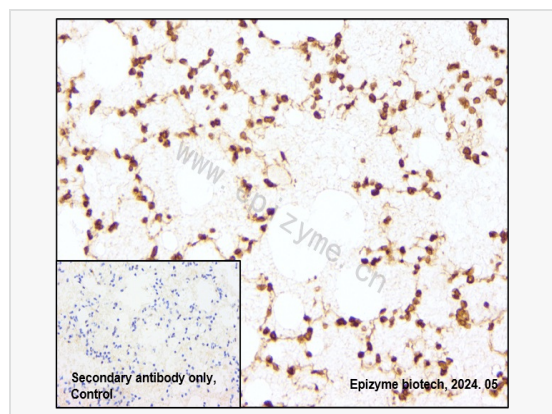
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-Lamin A/C Rabbit mAb [32K72K58]

Sample: Paraformaldehyde-fixed, paraffin mouse lung tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R011826 at 1:200 dilution

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.