

## Anti-Lamin A/C Antibody (5P554)

### Product Details

Ig Type:	IgG1, k
Reactivity:	Human, Mouse, Rat
Molecular Weight:	Theoretical: 73 kDa. Actual: 65-70 kDa.
Clone:	5P554
Purification:	Protein G purified

### Applications

#### Verified Activity:

1. 25 ug total protein per lane of various lysates (see on figure) probed with Lamin A/C monoclonal antibody, unconjugated (TMAB-08192) at 1:500 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r. T. for 60 min.
2. Paraformaldehyde-fixed, paraffin embedded Rat Colon; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with Lamin A/C Monoclonal Antibody, Unconjugated (TMAB-08192) at 1: 100 overnight at 4°C, followed by conjugation to the HRP and DAB staining.
3. Paraformaldehyde-fixed, paraffin embedded Rat Cerebrum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with Lamin A/C Monoclonal Antibody, Unconjugated (TMAB-08192) at 1: 100 overnight at 4°C, followed by conjugation to the HRP and DAB staining.
4. Paraformaldehyde-fixed, paraffin embedded Human Cerebrum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with Lamin A/C Monoclonal Antibody, Unconjugated (TMAB-08192) at 1: 100 overnight at 4°C, followed by conjugation to the HRP and DAB staining.
5. Paraformaldehyde-fixed, paraffin embedded Human Liver; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with Lamin A/C Monoclonal Antibody, Unconjugated (TMAB-08192) at 1: 100 overnight at 4°C, followed by conjugation to the HRP and DAB staining.
6. Paraformaldehyde-fixed, paraffin embedded Human Cervical Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with Lamin A/C Monoclonal Antibody, Unconjugated (TMAB-08192) at 1: 100 overnight at 4°C, followed by conjugation to the HRP and DAB staining.
7. Paraformaldehyde-fixed, paraffin embedded Human Colon Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with Lamin A/C Monoclonal Antibody, Unconjugated (TMAB-08192) at 1: 100 overnight at 4°C, followed by conjugation to the HRP and DAB staining.
8. Paraformaldehyde-fixed, paraffin embedded Human Breast Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with Lamin A/C Monoclonal Antibody, Unconjugated (TMAB-08192) at 1: 100 overnight at 4°C, followed by conjugation to the HRP and DAB staining.
9. Paraformaldehyde-fixed, paraffin embedded Human Breast; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with Lamin A/C Monoclonal Antibody, Unconjugated (TMAB-08192) at 1: 100 overnight at 4°C, followed by conjugation to the HRP and DAB staining.

## A DRUG SCREENING EXPERT

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Application: WB,IHC-P,IHC-Fr,IF

Recommended WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500

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### Properties

Stability & Storage: Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

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### Antigen Details

Immunogen: Recombinant Protein: human Lamin A/C

Antigen Species: Human

Gene ID: 4000

Uniprot ID: P02545

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### Research Background

The nuclear lamina consists of 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. [provided by RefSeq,

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