

## LF-PA50079 anti-lamin A/C

**Product Name**

anti-lamin A/C

**Pack Size**

200 ul

**Description**

Rabbit polyclonal to lamin A/C

**Immunogen**

A synthetic peptide corresponding to a sequence at the N-terminal of human Lamin A/C, different from the related rat and mouse sequence by three amino acids.

**Clonality**

Polyclonal Antibody

**Host**

Rabbit

**Isotype**

IgG

**Cross Reactivity**

Hu, Ms, Rt

**Application**

 WB (2.0 ug/ml)  
IHC-P (1.0-2.0 ug/ml)

**Concentration**

0.5mg/ml

**Research Area**
[Cytoskeleton](#)
**Background**

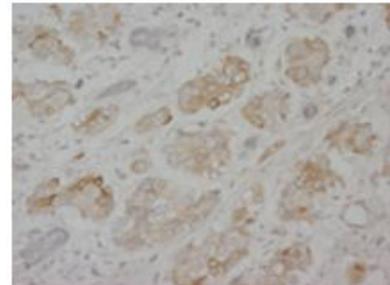
Lamins are structural protein components of the nuclear lamina, a protein network underlying the inner nuclear membrane that determines nuclear shape and size. There are three types of lamins, A,B and C. The lamin A/C (LMNA) gene contains 12 exons. Alternative splicing within exon 10 gives rise to two different mRNAs that code for pre-lamin A and lamin C. Lamin A/C mapped to 1q21.2-q21.3 and mutations in this gene cause a variety of human diseases including Emery-Dreifuss muscular dystrophy, dilated cardiomyopathy, and Hutchinson-Gilford progeria syndrome. Lamin A/C deficiency is thus associated with both defective nuclear mechanics and impaired mechanically activated gene transcription.

**Function**

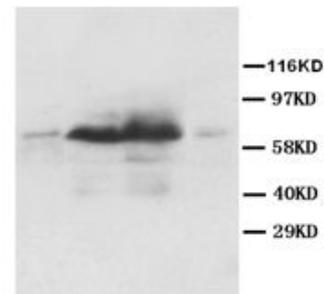
Lamins are components of the nuclear lamina, a fibrous layer on the nucleoplasmic side of the inner nuclear membrane, which is thought to provide a framework for the nuclear envelope and may also interact with chromatin. Lamin A and C are present in equal amounts in the lamina of mammals.

**Cellular Location**

Nucleus

**Image**


IMMUNOHISTOCHEMICAL ANALYSIS of Human mammary cancer (paraffin-embedded sections)


 IMMUNOBLOT ANALYSIS of tissue/cell lysate  
 Lane 1: Rat spleen tissue lysate  
 Lane 2: HeLa whole cell lysate  
 Lane 3: SW620 whole cell lysate  
 Lane 4: smmc whole cell lysate

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**Database Link**

SwissProt : [P02545](#)

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**Reference**

1. Lin, F.; Worman, H. J. : Structural organization of the human gene encoding nuclear lamin A and nuclear lamin C. J. Biol. Chem. 268: 16321-16326, 1993.
  2. Wydner, K. L. et al. Chromosomal assignment of human nuclear envelope protein genes LMNA, LMNB1, and LBR by fluorescence in situ hybridization. Genomics 32: 474-478, 1996.
  3. Lammerding, J. et al. Lamin A/C deficiency causes defective nuclear mechanics and mechanotransduction. J. Clin. Invest. 113: 370-378, 2004.
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**Composition**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Thimerosal, 0.05mg NaN<sub>3</sub>.

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**Storage**

At 4°C for one month. It can also be aliquotted and stored frozen at -20°C for longer time.

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