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## 39-2070: Anti-Lamin A/C Polyclonal Antibody

Clonality: Polyclonal
Application: WB,IHC-P,ICC
Reactivity: Human, Mouse, Rat

 Gene :
 LMNA

 Gene ID :
 4000

 Uniprot ID :
 P02545

 Format :
 Lyophilized

Alternative Name: Prelamin-A/C; Lamin-A/C; 70 kDa lamin; Renal carcinoma antigen NY-REN-32; LMNA; LMN1

**Isotype:** Rabbit IgG

**Immunogen Information :** A synthetic peptide corresponding to a sequence at the C-terminus of Human Lamin A/C(455-469aa RNKSNEDQSMGNWQI), identical to the related Rat and Mouse sequences.

## **Description**

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.

## **Product Info**

Amount: 100 μg/vial

**Purification:** Immunogen affinity purified.

Content: Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.

Reconstitute: Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Storage condition:

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and

stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

## **Application Note**

 $We stern \qquad blot \qquad : \qquad 0.1 - 0.5 \tilde{\mathbb{A}} \Box \hat{\mathbb{A}} \mathcal{A} g/ml; \qquad lmmunohistochemistry (Paraffin-embedded \qquad Section) \qquad : \qquad 0.5 - 1 \tilde{\mathbb{A}} \Box \hat{\mathbb{A}} \mathcal{A} g/ml;$ 

Immunocytochemistry: 0.5-1Ã\\[\hat{A}\]\[^1/4g/ml

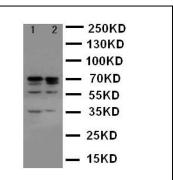


Figure 1: Anti-Lamin A+C antibody(39-2070). Western blotting : Lane 1: HELA Cell Lysate, Lane 2: A431 Cell Lysate.



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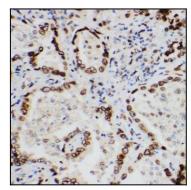


Figure 2: Anti-Lamin A+C antibody(39-2070). IHC(P): Human Lung Cancer Tissue.

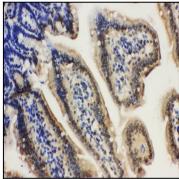


Figure 3: Anti-Lamin A+C antibody(39-2070). IHC(P): Mouse Intestine Tissue.

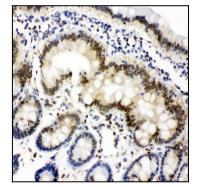


Figure 4: Anti-Lamin A+C antibody(39-2070). IHC(P): Rat Intestine Tissue.