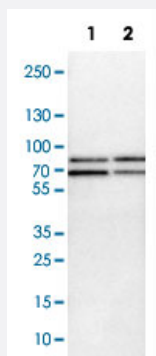


# LMNA polyclonal antibody

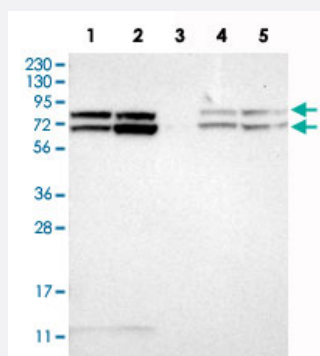
Catalog # PAB30761      Size 100 uL

## Applications



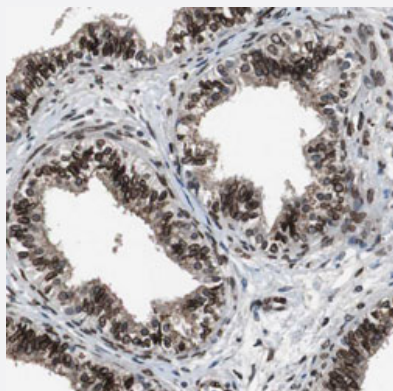
### Western Blot (Cell lysate)

Western Blot analysis of Lane 1: NIH-3T3 cell lysate (mouse embryonic fibroblast cells) and Lane 2: NBT-II cell lysate (Wistar rat bladder tumor cells) with LMNA polyclonal antibody (Cat # PAB30761).



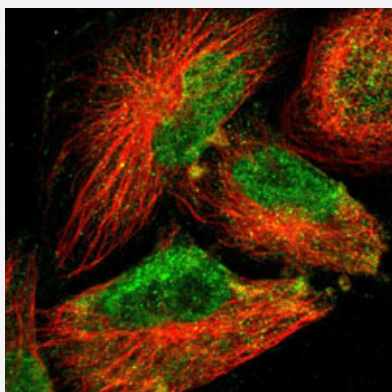
### Western Blot

Western Blot analysis of Lane 1: RT-4, Lane 2: U-251MG sp, Lane 3: human plasma (IgG/HSA depleted), Lane 4: human liver and Lane 5: human tonsil lysates with LMNA polyclonal antibody (Cat # PAB30761).



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human epididymis with LMNA polyclonal antibody (Cat # PAB30761) shows strong nuclear membrane positivity in glandular cells.



## Immunofluorescence

Immunofluorescent staining of U-251 MG with LMNA polyclonal antibody (Cat # PAB30761) (Green) shows positivity in nucleus and cytoplasm.

## Specification

|                            |                                                                                                                                                                                                                        |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Description</b> | Rabbit polyclonal antibody raised against partial recombinant human LMNA.                                                                                                                                              |
| <b>Immunogen</b>           | Recombinant protein corresponding to human LMNA.                                                                                                                                                                       |
| <b>Sequence</b>            | EVVSREVSIGKAAEAEELGDARKTLDVAKERARLQLELSKVREEFKELKARNTKKEGDLIAAQA<br>RLKDLEALLNSKEAALSTALSEKRTLEGELHDLRGQVAKLEAALGEAKKQLQDEMLRRVDAENR<br>LQTMKEELDFQKNIYSEELRE                                                          |
| <b>Host</b>                | Rabbit                                                                                                                                                                                                                 |
| <b>Reactivity</b>          | Human, Mouse, Rat                                                                                                                                                                                                      |
| <b>Form</b>                | Liquid                                                                                                                                                                                                                 |
| <b>Purification</b>        | Antigen affinity purification                                                                                                                                                                                          |
| <b>Isotype</b>             | IgG                                                                                                                                                                                                                    |
| <b>Recommend Usage</b>     | Immunofluorescence (1-4 ug/mL)<br>Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:20-1:50)<br>Western Blot (1:100-1:250)<br>The optimal working dilution should be determined by the end user. |
| <b>Storage Buffer</b>      | In PBS, pH 7.2 (40% glycerol, 0.02% sodium azide).                                                                                                                                                                     |
| <b>Storage Instruction</b> | Store at 4°C. For long term storage store at -20°C.<br>Aliquot to avoid repeated freezing and thawing.                                                                                                                 |
| <b>Note</b>                | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.                                                                                                 |

## Applications

- Western Blot (Cell lysate)

Western Blot analysis of Lane 1: NIH-3T3 cell lysate (mouse embryonic fibroblast cells) and Lane 2: NBT-II cell lysate (Wistar rat bladder tumor cells) with LMNA polyclonal antibody (Cat # PAB30761).

- Western Blot

Western Blot analysis of Lane 1: RT-4, Lane 2: U-251MG sp, Lane 3: human plasma (IgG/HSA depleted), Lane 4: human liver and Lane 5: human tonsil lysates with LMNA polyclonal antibody (Cat # PAB30761).

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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- Immunofluorescence

Immunofluorescent staining of U-251 MG with LMNA polyclonal antibody (Cat # PAB30761) (Green) shows positivity in nucleus and cytoplasm.

## Gene Info — LMNA

|                    |                                                                                                                                                                                                                                                                                                            |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Entrez GeneID      | <a href="#">4000</a>                                                                                                                                                                                                                                                                                       |
| Protein Accession# | <a href="#">P02545</a>                                                                                                                                                                                                                                                                                     |
| Gene Name          | LMNA                                                                                                                                                                                                                                                                                                       |
| Gene Alias         | CDSD1, CDDC, CMD1A, CMT2B1, EMD2, FPL, FPLD, HGPS, IDC, LDP1, LFP, LGMD1B, LM N1, LMNC, PRO1                                                                                                                                                                                                               |
| Gene Description   | lamin A/C                                                                                                                                                                                                                                                                                                  |
| Omim ID            | <a href="#">115200</a> <a href="#">150330</a> <a href="#">151660</a> <a href="#">159001</a> <a href="#">176670</a> <a href="#">181350</a> <a href="#">248370</a> <a href="#">275210</a> <a href="#">277700</a> <a href="#">604929</a> <a href="#">605588</a> <a href="#">607920</a> <a href="#">608056</a> |
| Gene Ontology      | <a href="#">Hyperlink</a>                                                                                                                                                                                                                                                                                  |

**Gene Summary**

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. Through alternate splicing, this gene encodes three type A lamin isoforms. 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]

**Other Designations**

70 kDa lamin|OTTHUMP00000015843|OTTHUMP00000015848

**Pathway**

- [Arrhythmogenic right ventricular cardiomyopathy \(ARVC\)](#)
- [Hypertrophic cardiomyopathy \(HCM\)](#)

**Disease**

- [Aging](#)
- [Alzheimer disease](#)
- [Arrhythmia](#)
- [Atherosclerosis](#)
- [Atrial Fibrillation](#)
- [Calcinosis](#)
- [Cardiomyopathy](#)
- [Cardiovascular Diseases](#)
- [Cerebrovascular Disorders](#)
- [Charcot-Marie-Tooth Disease](#)
- [Cognition](#)
- [Cognition Disorders](#)
- [Coronary Artery Disease](#)
- [Death](#)

- [Diabetes Mellitus](#)
- [Diabetic Nephropathies](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Heart Failure](#)
- [Hyperglycemia](#)
- [Hyperinsulinism](#)
- [Hyperlipidemias](#)
- [Hypertriglyceridemia](#)
- [Insulin Resistance](#)
- [Kidney Failure](#)
- [Metabolic Syndrome X](#)
- [Obesity](#)
- [Polycystic Ovary Syndrome](#)
- [Syndrome](#)
- [Ventricular Dysfunction](#)