

## Mouse anti-Human Lamin A/C Monoclonal Antibody | anti-LMNA antibody

Lamin A/C Monoclonal Antibody

|                               |                      |                            |                                                         |
|-------------------------------|----------------------|----------------------------|---------------------------------------------------------|
| CATALOG #<br><b>AAA179738</b> | HOST<br><b>Mouse</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>Immunofluorescence, Western Blot</b> |
|-------------------------------|----------------------|----------------------------|---------------------------------------------------------|

### PRODUCT SYNONYMS

Lamin A/C; Monoclonal Antibody; Lamin A/C Monoclonal Antibody; Prelamin-A/C; LMNA; LMN1; anti-LMNA antibody

### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                  |
|------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| Host                                           | Mouse                                                                                                            |
| Reactivity                                     | Human                                                                                                            |
| Clonality                                      | Monoclonal                                                                                                       |
| Isotype                                        | IgG1                                                                                                             |
| Clone Number                                   | 4F1                                                                                                              |
| Purity/Purification                            | Protein A/G Purification                                                                                         |
| Form/Format                                    | PBS with 0.02% sodium azide, 1% protective protein and 50% glycerol, pH 7.4                                      |
| Concentration                                  | 1mg/mL (varies by lot)                                                                                           |
| Applicable Applications for anti-LMNA antibody | IF (Immunofluorescence), WB (Western Blot)                                                                       |
| Immunogen                                      | Recombinant human Lamin A/C protein expressed by E coli                                                          |
| Preparation and Storage                        | Store at -20 degree C Valid for 12 months. Avoid freeze/thaw cycles. Protected from prolonged exposure to light. |

### IMAGES



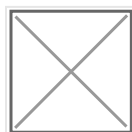
#### IF (Immunofluorescence)

Immunofluorescence analysis of U-2 OS cells using Lamin A/C Monoclonal Antibody at dilution of 1:500.



#### IF (Immunofluorescence)

Immunofluorescence analysis of HeLa cells using Lamin A/C Monoclonal Antibody at dilution of 1:500.



#### WB (Western Blot)

Western blot with Anti Lamin A/C Monoclonal Antibody at dilution of 1:3000. Lane 1: SH-SY5Y cell lysate, Lane 2: HL-60 cell lysate, Lane 3: U-87 MG cell lysate, Lane 4: Hep G2 cell lysate.

ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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| Related Product Information for anti-LMNA antibody | Lamin A/C is also named as LMNA, or LMN1. 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. The lack of lamin A/C can be as a novel marker for undifferentiated embryonic stem cells and lamin A/C expression is as an early indicator of differentiation (PMID: 16179429). 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. This protein has 4 isoforms produced by alternative splicing with the molecular weight of 74 kDa, 65 kDa, 70 kDa and 64 kDa. This antibody can recognize 4 isoforms of Lamin A/C. |
| Product Categories/Family for anti-LMNA antibody   | Primary Antibodies; Tags/Controls Antibodies; Signal Transduction; Tags and Cell Markers; Cancer; Cell Biology ; Developmental Biology; Epigenetics and Nuclear Signaling; Biochemicals                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                           |
|----------------------------------|-----------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 383792150                                                                                                 |
| NCBI GeneID                      | 4000                                                                                                      |
| NCBI Accession #                 | NP_001244303.1                                                                                            |
| NCBI GenBank Nucleotide #        | NM_001257374.1                                                                                            |
| UniProt Accession #              | P02545; P02546; Q5TCJ2; Q5TCJ3; Q969I8; Q96JA2; B4DI32; D3DVB0; E7EUI9                                    |
| Molecular Weight                 | 74,65kDa                                                                                                  |
| NCBI Official Full Name          | lamin isoform D                                                                                           |
| NCBI Official Synonym Full Names | lamin A/C                                                                                                 |
| NCBI Official Symbol             | LMNA                                                                                                      |
| NCBI Official Synonym Symbols    | FPL; IDC; LFP; CDDC; EMD2; FPLD; HGPS; LDP1; LMN1; LMNC; PRO1; CDCD1; CMD1A; FPLD2; LMNL1; CMT2B1; LGMD1B |
| NCBI Protein Information         | lamin; 70 kDa lamin; prelamin-A/C; lamin A/C-like 1; renal carcinoma antigen NY-REN-32                    |
| UniProt Protein Name             | Prelamin-A/C                                                                                              |
| UniProt Gene Name                | LMNA                                                                                                      |
| UniProt Synonym Gene Names       | LMN1                                                                                                      |
| UniProt Entry Name               | LMNA_HUMAN                                                                                                |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/lamin-a-c-antibody-clone-4f1-immunofluorescence-western-blot-elisa/179738>