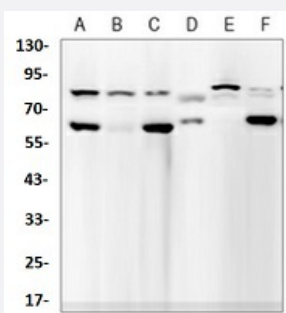


RecomAb™

LMNA recombinant monoclonal antibody

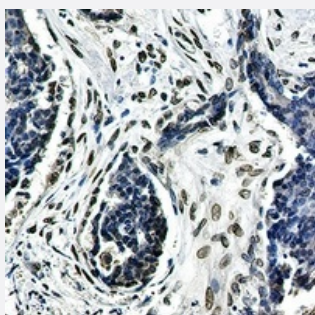
Catalog # RAB02596 Size 100 uL

Applications



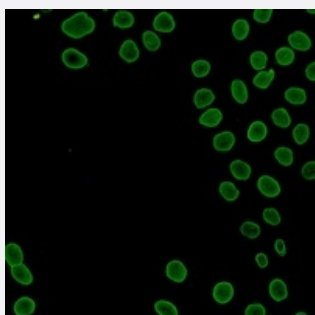
Western Blot (Cell lysate)

Western blot analysis of NIH3T3 (A), C2C12 (B), U251 (C), Lncap (D), A549 (E) whole cell lysates with LMNA recombinant monoclonal antibody (Cat # RAB02596).



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

Immunohistochemical analysis of human breast carcinoma formalin fixed paraffin embedded tissue section using LMNA recombinant monoclonal antibody (Cat # RAB02596). The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.23). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescence

Immunofluorescent analysis of HeLa cells with LMNA recombinant monoclonal antibody (Cat # RAB02596). Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark.

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human LMNA.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide of human LMNA.
Theoretical MW (kDa)	63, 74
Reactivity	Human, Mouse
Specificity	Recognizes endogenous levels of Lamin A/C protein.
Form	Liquid
Purification	Immunogen affinity chromatography
Isotype	IgG
Recommend Usage	Immunocytochemistry (1:50-1:100) Immunofluorescence (1:50-1:100) Immunohistochemistry (1:50-1:100) Western Blot (1:500-1:1000)
Storage Buffer	In 50mM Tris-Glycine, pH 7.4 (0.15M NaCl, 50% Glycerol, 0.01% Sodium azide and 0.05% BSA)
Storage Instruction	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

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- Immunocytochemistry

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Gene Info — LMNA

Entrez GeneID [4000](#)

Protein Accession# [P02545](#)

Gene Name LMNA

Gene Alias CDCD1, CDDC, CMD1A, CMT2B1, EMD2, FPL, FPLD, HGPS, IDC, LDP1, LFP, LGMD1B, LMN1, LMNC, PRO1

Gene Description lamin A/C

Omim ID [115200](#) [150330](#) [151660](#) [159001](#) [176670](#) [181350](#) [248370](#) [275210](#) [277700](#) [604929](#) [605588](#) [607920](#) [608056](#)

Gene Ontology [Hyperlink](#)

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](#)