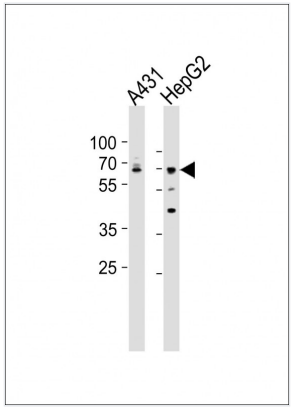
LMNA Antibody – Rabbit Polyclonal

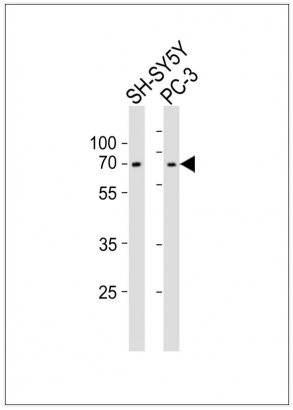
PRODUCT OVERVIEW

Product Name	LMNA (Lamin-A/C), Polyclonal Antibody
Full Product Name	LMNA (Lamin-A/C) Antibody (Center)
Product Gene Name	anti-LMNA antibody
Product Synonym Names	Prelamin-A/C; Lamin-A/C; 70 kDa lamin; Renal carcinoma antigen NY-REN-32; LMNA; LMN1
Clonality	Polyclonal
Isotype	Rabbit Ig
Host	Rabbit
Species Reactivity	Human
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Concentration	Vial Concentration: 0.5 (lot specific)
Specificity	This LMNA(Lamin-A/C) antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 465-498 amino acids from the Central region of human LMNA(Lamin-A/C).
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	LMNA (Lamin-A/C) peptide (MBS9229866) is used for blocking the activity of LMNA (Lamin-A/C) antibody (MBS9210422)
Molecular Weight	74139
OMIM	115200
3D Structure	ModBase 3D Structure for P02545
Antigen Source	HUMAN
Applications Tested/Suitable for anti-LMNA antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-LMNA antibody	WB~~1:1000
Related Product Information for anti-LMNA antibody	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. Plays an important role in nuclear assembly, chromatin organization, nuclear membrane and telomere dynamics. Required for normal development of peripheral nervous system and skeletal muscle and for muscle satellite cell proliferation. Required for osteoblastogenesis and bone formation. Also prevents fat infiltration of muscle and bone marrow, helping to maintain the volume and strength of skeletal muscle and bone.
Product References and Citations for anti-LMNA antibody	McKeon F.D.,et al.Nature 319:463-468(1986). Fisher D.Z.,et al.Proc. Natl. Acad. Sci. U.S.A. 83:6450-6454(1986). Sylvius N.,et al.J. Med. Genet. 42:639-647(2005). Csoka A.B.,et al.Submitted (JUL-2003) to the EMBL/GenBank/DDBJ databases. Ota T.,et al.Nat. Genet. 36:40-45(2004).

Other Notes	Small volumes of anti-LMNA antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for LMNA purchase	MBS9210422 is an antibody targeting LMNA. Also known as LMNA (Lamin-A/C) Antibody (Center). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-LMNA antibody
All lanes : Anti-LMNA(Lamin-A/C) Antibody (Center) at 1:500 dilutionLane 1: A431 whole cell lysatesLane 2: HepG2 whole cell lysatesLysates/proteins at 20 ug per lane.SecondaryGoat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilutionPredicted band size : 74 kDaBlocking/Dilution buffer: 5% NFDM/TBST.



Western Blot (WB) of anti-LMNA antibody
All lanes : Anti-LMNA(Lamin-A/C) Antibody (Center) at 1:1000 dilutionLane 1: SH-SY5Y whole cell lysatesLane 2: PC-3 whole cell lysatesLysates/proteins at 20 ug per lane.SecondaryGoat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilutionPredicted band size : 74 kDaBlocking/Dilution buffer: 5% NFDM/TBST.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for LMNA. It may not necessarily be applicable to this product.

NCBI GI #	383792150
NCBI GeneID	4000
NCBI Accession #	NP_001244303.1
UniProt Primary Accession #	P02545
UniProt Secondary Accession #	P02546; Q5I6Y4; Q5I6Y6; Q5TCJ2; Q5TCJ3; Q6UYC3; Q969I8; B4DI32; D3DVB0; D6RAQ3; E7EUI9
UniProt Related Accession #	P02545
GenBank Nucleotide #	NM_001257374.2
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
UniProt Protein Name	Prelamin-A/C
UniProt Synonym Protein Names	Lamin-A/CAlternative name(s):70 kDa lamin; Renal carcinoma antigen NY-REN-32
Protein Family	Lamin
UniProt Gene Name	LMNA
UniProt Synonym Gene Names	LMN1
UniProt Entry Name	LMNA_HUMAN
NCBI Protein Information	lamin

NCBI Summary for LMNA	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. Alternative splicing results in multiple transcript variants. 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, Apr 2012]
UniProt Comments for LMNA	lamin A/C: nuclear lamins are intermediate filament proteins that constitute the lattice-like matrix at the inner face of the nuclear membrane that underlies the nuclear envelop. The lamins, highly conserved throughout evolution, are encoded by three genes in the human: LMNA, LMNB1, and LMNB2. The A-type lamins (lamin A/C) are developmentally regulated and are generally expressed in differentiated cells. The anchoring of chromatin to the nuclear lamina is involved in the control of gene expression and in DNA replication and repair. During mitosis, the nuclear lamina is reversibly disassembled as the lamin proteins are phosphorylated. Cleaved by caspase-6 during apoptosis into a 40-45 kDa and a28 kDa fragment. Protein type: Cytoskeletal Chromosomal Location of Human Ortholog: 1q22 Cellular Component: nucleoplasm; nuclear lamina; nuclear membrane; perinuclear region of cytoplasm; cytoplasm; lamin filament; intermediate filament; nuclear speck; nuclear envelope; cytosol; nucleus Molecular Function: protein binding; structural molecule activity Biological Process: mitotic nuclear envelope reassembly; muscle development; unfolded protein response; apoptosis; ventricular cardiac muscle cell development; mitotic nuclear envelope disassembly; regulation of cell migration; cellular protein metabolic process; unfolded protein response, activation of signaling protein activity; sterol regulatory element binding protein nuclear translocation; mitotic cell cycle; establishment and/or maintenance of microtubule cytoskeleton polarity; cell structure disassembly during apoptosis Disease: Heart-hand Syndrome, Slovenian Type; Emery-dreifuss Muscular Dystrophy 2, Autosomal Dominant; Restrictive Dermopathy, Lethal; Muscular Dystrophy, Congenital, Lmna-related; Mandibuloacral Dysplasia With Type A Lipodystrophy; Charcot-marie-tooth Disease, Axonal, Type 2b1; Emery-dreifuss Muscular Dystrophy 3, Autosomal Recessive; Lipodystrophy, Familial Partial, Type 2; Hutchinson-gilford Progeria Syndrome; Cardiomyopathy, Dilated, 1a; Muscular Dystrophy, Limb-girdle, Type 1b; Cardiomyopathy, Dilated, With Hypergonadotropic Hypogonadism
Research Articles on LMNA	**1.** Caveolin 2 disengages repressed Egr-1 and JunB promoters from lamin A/C through disassembly of H3K9me3 in the inner nuclear membrane.
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