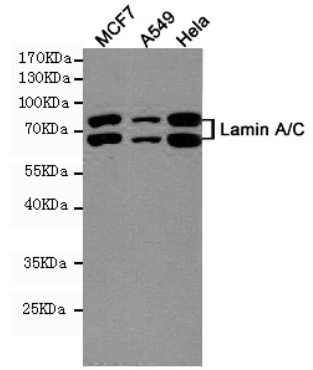
Lamin A/C mouse mAb

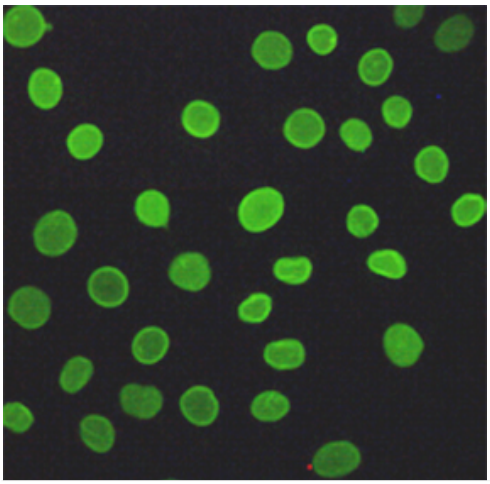
Catalog No	BYab-00104
Isotype	IgG
Reactivity	Human
Applications	WB;IF
Gene Name	lmna
Protein Name	
Immunogen	Purified recombinant human LMNA protein fragments expressed in E.coli.
Specificity	This antibody detects endogenous levels of Lamin A/C and does not cross-react with related proteins.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse
Purification	The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen.
Dilution	wb dilution 1:1000 icc dilution 1:200. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	70 kDa lamin ; Cardiomyopathy dilated 1A (autosomal dominant) ; CDCD1 ; CDDC ; CMD1A ; CMT2B1 ; EMD2 ; FPL ; FPLD ; FPLD2 ; HGPS ; IDC ; LAMIN A ; lamin A/C ; Lamin A/C like 1 ; Lamin ; LAMIN C ; Lamin-A/C ; LDP1 ; LFP ; LGMD1B ; Limb girdle muscular dystrophy 1B (autosomal dominant) ; LMN 1 ; LMN A ; LMN C ; LMN1 ; LMNA ; LMNA_HUMAN ; LMNC ; LMNL1 ; Prelamin A/C ; PRO1 ; Renal carcinoma antigen NY REN 32 ; Renal carcinoma antigen NY-REN-32 ; Renal carcinoma antigen NYREN32.
Observed Band	74/63kD
Cell Pathway	Nucleus . Nucleus envelope . Nucleus lamina. Nucleus, nucleoplasm. Nucleus matrix . Farnesylation of prelamin-A/C facilitates nuclear envelope targeting and subsequent cleavage by ZMPSTE24/FACE1 to remove the farnesyl group produces mature lamin-A/C, which can then be inserted into the nuclear lamina. EMD is required for proper localization of non-farnesylated prelamin-A/C.; [Isoform C]: Nucleus speckle .
Tissue Specificity	In the arteries, prelamin-A/C accumulation is not observed in young healthy vessels but is prevalent in medial vascular smooth muscle cells (VSMCs) from

	aged individuals and in atherosclerotic lesions, where it often colocalizes with senescent and degenerate VSMCs. Prelamin-A/C expression increases with age and disease. In normal aging, the accumulation of prelamin-A/C is caused in part by the down-regulation of ZMPSTE24/FACE1 in response to oxidative stress.
Function	disease:Defects in LMNA are a cause of Emery-Dreifuss muscular dystrophy type 2 (EDMD2) [MIM:181350]. EDMD2 is an autosomal dominant disorder characterized by slowly progressive muscle wasting and weakness, early contractures of the elbows Achilles tendons and spine, and cardiomyopathy associated with cardiac conduction defects.,disease:Defects in LMNA are a cause of Emery-Dreifuss muscular dystrophy type 3 (EDMD3) [MIM:604929]. EDMD3 is an autosomal recessive disorder characterized by early contractures, muscle wasting and weakness and cardiomyopathy.,disease:Defects in LMNA are a cause of familial partial lipodystrophy type 2 (FPLD2) [MIM:151660]; also known as familial partial lipodystrophy Dunnigan type. FPLD2 is an autosomal dominant disorder characterized by marked loss of subcutaneous adipose tissue from the extremities and trunk but by excess fat deposition in the head and neck.
Background	lamin A/C(LMNA) Homo sapiens 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],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western blot detection of Lamin A/C in MCF7,A549 and Hela cell lysates using Lamin A/C mouse mAb (1:1000 diluted).Predicted band size:74,63KDa.Observed band size:74,63KDa.



Immunofluorescent analysis of A549 cells fixed with 4% Paraformaldehyde and using anti-Lamin A/C mouse mAb (dilution 1:200).