

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

Lamin A/C Mouse mAb

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA62358	Mouse	Human	Flow Cytometry, Functional Assay, Immunoprecipitation, Western Blot

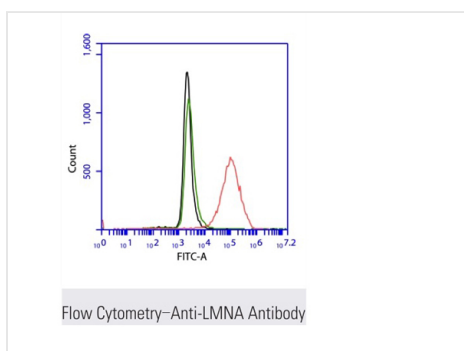
PRODUCT SYNONYMS

Lamin A/C; Monoclonal Antibody; Lamin A/C Mouse mAb; Lamin A/C (LMNA) Mouse mAb; 70 kDa lamin; lamin A/C-like 1; lamin-A/C; Prelamin-A/C; renal carcinoma antigen NY-REN-32; anti-LMNA antibody

PRODUCT SPECIFICATIONS

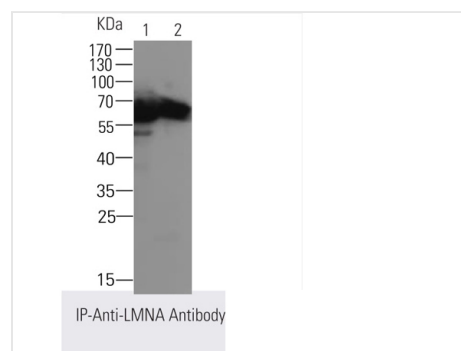
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG
Sequence Length	664
Applicable Applications for anti-LMNA antibody	FCM/FACS (Flow Cytometry), IP (Immunoprecipitation), WB (Western Blot)
Source Note	This monoclonal antibody is produced by immunizing mice with a sythetic peptide(KLH coupled)corresponding to amino-terminal residues of human LMNA.
Preparation and Storage	Store at -20 degree C. Stable for one year from the date of shipment.

IMAGES



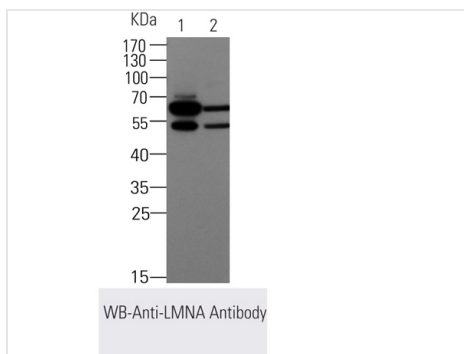
FCM/FACS (Flow Cytometry)

Flow cytometric analysis of 2% paraformaldehyde-fixed THP1 (Human acute monocytic leukemia cell line) cells labeling LMNA with M25209 at 1/200 dilution (red) compared with a mouse monoclonal IgG isotype control (black) and an unlabelled control (cells without incubation with primary antibody, blue). Goat anti-mouse IgG (FITC) at 1/300 dilution was used as the secondary antibody.



IP (Immunoprecipitation)

LMNA was immunoprecipitated from 1mg of THP1 cells membrane fraction, blotted with M25209 of 10 ug. Western blot was performed from the immunoprecipitate using M25209 at 1/1000 dilution. Anti-Mouse-IgG(HRP), specific to the non-reduced form of IgG, was used as secondary antibody at 1/10000 dilution. Lane 1: THP1 cells membrane fraction. Lane2: IP product of THP1 cells membrane fraction.Blocking and dilution buffer and concentration:5% milk/TBST.



WB (Western Blot)

All lanes : LMNA Mouse mAb at 1/2000 dilution Lane 1 : THP1 cells membrane fraction Lane 2 : Jurkat cells membrane fraction Lysates/proteins at 20 ug per lane. Secondary Goat Anti-Mouse IgG-HRP, 5% milk conjugated at 1/10000 dilution Predicted band size : 65 KDa
Observed band size : 65 KDa Blocking/Dilution buffer : 1x TBST.

ADDITIONAL INFORMATION

Related Product Information for anti-LMNA antibody	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.
Product Categories/Family for anti-LMNA antibody	Cell Marker ; Subcellular Marker ; Membrane

NCBI AND UNIPROT INFORMATION

NCBI GI #	27436946
NCBI GeneID	4000
NCBI Accession #	NP_733821.1
NCBI GenBank Nucleotide #	NM_170707.3
UniProt Accession #	P02545 ; P02546 ; Q5I6Y4 ; Q5I6Y6 ; Q5TCJ2 ; Q5TCJ3 ; Q6UYC3 ; Q969I8 ; B4DI32 ; D3DVB0 ; D6RAQ3 ; E7EUI9
Molecular Weight	Predicted MW: 65kDa
NCBI Official Full Name	lamin isoform A
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; MADA; PRO1; CDCD1; CMD1A; FPLD2; LMNL1; CMT2B1; LGMD1B
NCBI Protein Information	lamin
UniProt Protein Name	Prelamin-A/C
UniProt Gene Name	LMNA
UniProt Synonym Gene Names	LMN1

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.

