

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

Anti-Lamin A+C/LMNA Antibody Picoband (monoclonal, 5F3C12)

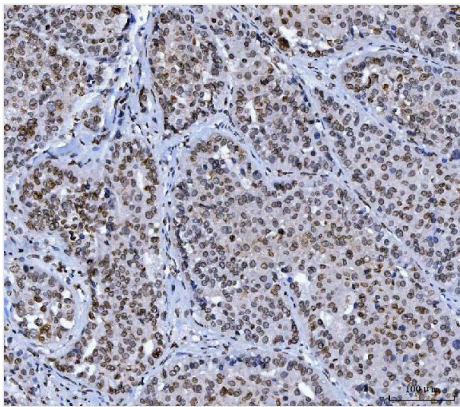
CATALOG # AAA126868	HOST Mouse	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

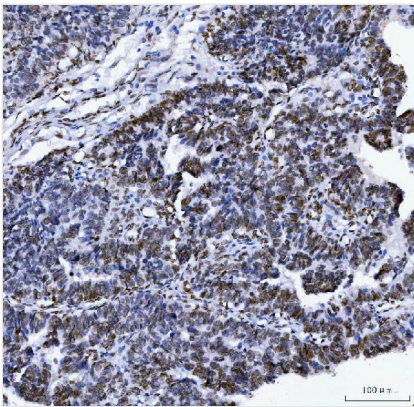
Lamin A+C/LMNA; Monoclonal Antibody; Anti-Lamin A+C/LMNA Antibody Picoband (monoclonal; 5F3C12); anti-LMNA antibody

PRODUCT SPECIFICATIONS

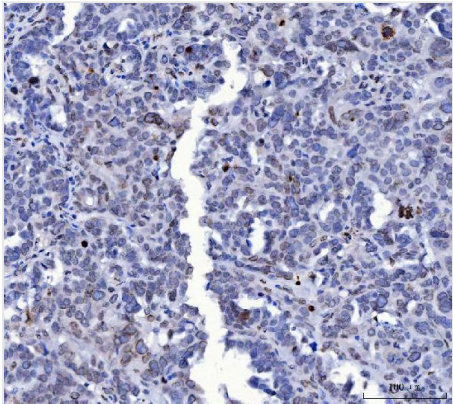
Host	Mouse
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal
Isotype	IgG2b
Clone Number	5F3C12
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na ₂ HPO ₄ .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-LMNA antibody	IHC (Immunohistochemistry), WB (Western Blot)
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived human Lamin A/C recombinant protein (Position: Y481-Y646). Human Lamin A/C shares 90% and 92% amino acid (aa) sequence identity with mouse and rat Lamin A/C, respectively.
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.



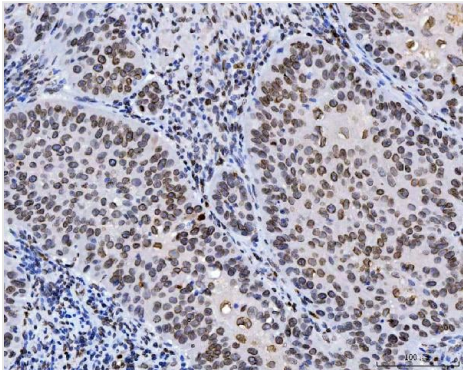
IHC (Immunohistochemistry)
Figure 5. IHC analysis of Lamin A+C/LMNA using anti-Lamin A+C/LMNA antibody (AAA126868).Lamin A+C/LMNA was detected in a paraffin-embedded section of human liver cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml mouse anti-Lamin A+C/LMNA Antibody (AAA126868) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Mouse IgG Super Vision Assay Kit with DAB as the chromogen.



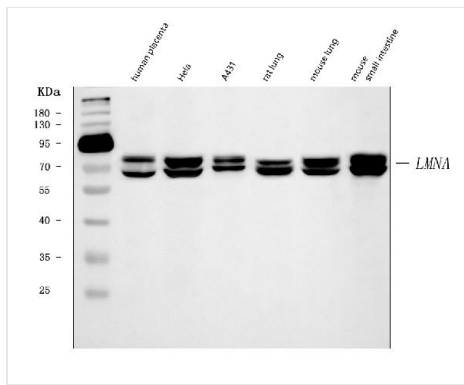
IHC (Immunohistochemistry)
Figure 4. IHC analysis of Lamin A+C/LMNA using anti-Lamin A+C/LMNA antibody (AAA126868).Lamin A+C/LMNA was detected in a paraffin-embedded section of human bladder epithelial carcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml mouse anti-Lamin A+C/LMNA Antibody (AAA126868) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Mouse IgG Super Vision Assay Kit with DAB as the chromogen.



IHC (Immunohistochemistry)
Figure 3. IHC analysis of Lamin A+C/LMNA using anti-Lamin A+C/LMNA antibody (AAA126868).Lamin A+C/LMNA was detected in a paraffin-embedded section of human ovarian cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml mouse anti-Lamin A+C/LMNA Antibody (AAA126868) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Mouse IgG Super Vision Assay Kit with DAB as the chromogen.



IHC (Immunohistochemistry)
Figure 2. IHC analysis of Lamin A+C/LMNA using anti-Lamin A+C/LMNA antibody (AAA126868).Lamin A+C/LMNA was detected in a paraffin-embedded section of human laryngeal squamous cell carcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml mouse anti-Lamin A+C/LMNA Antibody (AAA126868) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Mouse IgG Super Vision Assay Kit with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of Lamin A/C/LMNA using anti-Lamin A/C/LMNA antibody (AAA126868). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human placenta tissue lysates, Lane 2: human Hela whole cell lysates, Lane 3: human A431 whole cell lysates, Lane 4: rat lung tissue lysates, Lane 5: mouse lung tissue lysates, Lane 6: mouse small intestine tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with mouse anti-Lamin A/C/LMNA antigen affinity purified monoclonal antibody (#AAA126868) at 0.5 ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-mouse IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for Lamin A/C/LMNA at approximately 74 kDa. The expected band size for Lamin A/C/LMNA is at 70 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-LMNA antibody	Lamins are structural protein components of the nuclear lamina, a protein network underlying the inner nuclear membrane that determines nuclear shape and size. There are three types of lamins, A,B and C. The lamin A/C (LMNA) gene contains 12 exons. Alternative splicing within exon 10 gives rise to two different mRNAs that code for pre-lamin A and lamin C. Lamin A/C is mapped to 1q21.2-q21.3 and mutations in this gene cause a variety of human diseases including Emery-Dreifuss muscular dystrophy, dilated cardiomyopathy, and Hutchinson-Gilford progeria syndrome. Lamin A/C deficiency is thus associated with both defective nuclear mechanics and impaired mechanically activated gene transcription.
Product Categories/Family for anti-LMNA antibody	Primary Antibodies , Mouse Monoclonal Antibodies

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-ac-lmna-antibody-clone-5f3c12-immunohistochemistry-western-blot-elisa/126868>