

Lamin A/C Polyclonal Antibody | anti-LMNA antibody

Anti-Lamin A/C Antibody

CATALOG # AAA46389	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunocytochemistry, Immunohistochemistry, Western Blot
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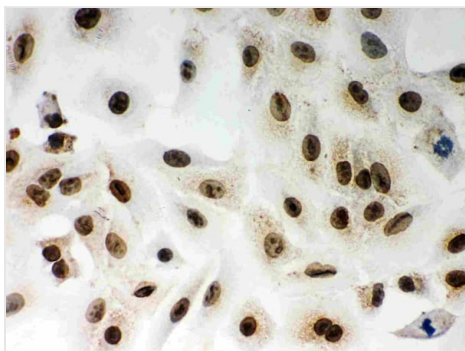
PRODUCT SYNONYMS

Lamin A/C; Polyclonal Antibody; Anti-Lamin A/C Antibody; Prelamin-A/C; 70 kDa lamin; CDCD1; CDDC; CMD1A; CMT2B1; EMD2; FPL; FPLD; HGPS; IDC; LAMIN A; lamin A/C; LAMIN C; Lamin-A/C; LDP1; LFP; LGMD1B; LMN 1; LMN A; LMN C; LMN1; LMNA; LMNA_HUMAN; LMNC; NY REN 32 antigen; PRO1; Renal carcinoma antigen NY-REN-32; anti-LMNA antibody

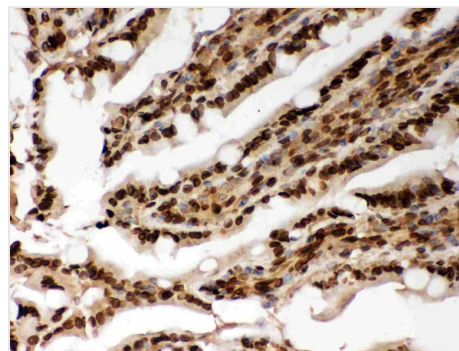
PRODUCT SPECIFICATIONS

Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Sequence Length	574
Applicable Applications for anti-LMNA antibody	ICC (Immunocytochemistry), IHC (Immunohistochemistry), WB (Western Blot)
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.
Ig Type	Rabbit IgG
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquoted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

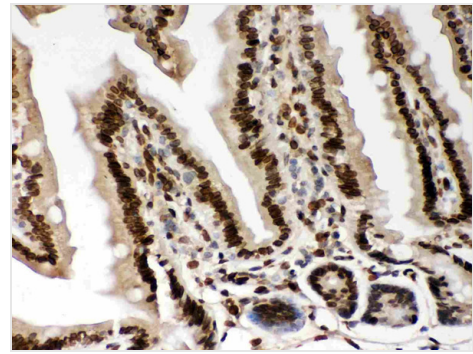
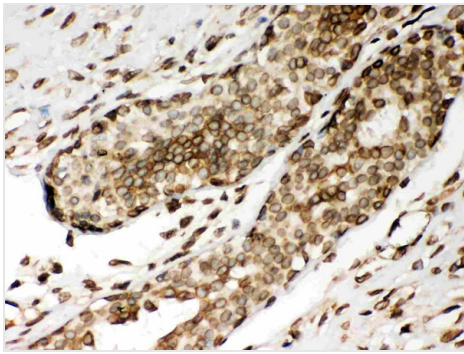
IMAGES


ICC (Immunocytochemistry)

Anti- Lamin A Picoband antibody, AAA46389, ICCICC: A549 Cell


IHC (Immunohistochemistry)

Anti- Lamin A Picoband antibody, AAA46389, IHC(P)IHC(P): Rat Intestine Tissue

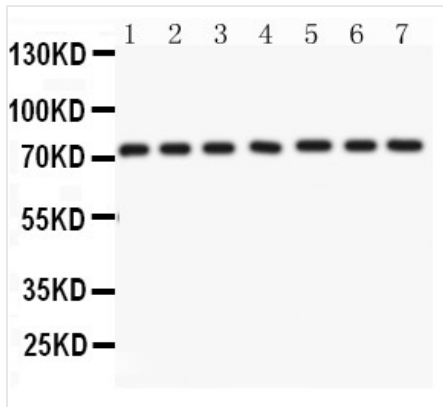


IHC (Immunohistochemistry)

Anti- Lamin A Picoband antibody, AAA46389, IHC(P)IHC(P): Human Mammary Cancer Tissue

IHC (Immunohistochemistry)

Anti- Lamin A Picoband antibody, AAA46389, IHC(P)IHC(P): Mouse Intestine Tissue



WB (Western Blot)

Anti- Lamin A Picoband antibody, AAA46389, Western blottingAll lanes: Anti Lamin A (AAA46389) at 0.5ug/mlLane 1: Human Placenta Tissue Lysate at 50ugLane 2: SKOV Whole Cell Lysate at 40ugLane 3: SW620 Whole Cell Lysate at 40ugLane 4: COLO320 Whole Cell Lysate at 40ugLane 5: HELA Whole Cell Lysate at 40ugLane 6: 293T Whole Cell Lysate at 40ugLane 7: A549 Whole Cell Lysate at 40ugPredicted bind size: 74KDObserved bind size: 74KD

ADDITIONAL INFORMATION

Related Product Information for anti-LMNA antibody

Description: Rabbit IgG polyclonal antibody for Prelamin-A/C(LMNA) detection. Tested with WB, IHC-P, ICC in Human;Mouse;Rat.

Background: 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.

References

1. Lammerding, J.; Schulze, P. C.; Takahashi, T.; Kozlov, S.; Sullivan, T.; Kamm, R. D.; Stewart, C. L.; Lee, R. T. : Lamin A/C deficiency causes defective nuclear mechanics and mechanotransduction. J. Clin. Invest. 113: 370-378, 2004. 2. Lin, F.; Worman, H. J. : Structural organization of the human gene encoding nuclear lamin A and nuclear lamin C. J. Biol. Chem. 268: 16321-16326, 1993. 3. Wydner, K. L.; McNeil, J. A.; Lin, F.; Worman, H. J.; Lawrence, J. B. : Chromosomal assignment of human nuclear envelope protein genes LMNA, LMNB1, and LBR by fluorescence in situ hybridization. Genomics 32: 474-478, 1996.

NCBI AND UNIPROT INFORMATION

NCBI GI #	383792150
NCBI GeneID	4000
NCBI Accession #	NP_001244303.1

NCBI GenBank Nucleotide #	NM_001257374.2
UniProt Accession #	P02545 ; P02546 ; Q5I6Y4 ; Q5I6Y6 ; Q5TCJ2 ; Q5TCJ3 ; Q6UYC3 ; Q969I8 ; B4DI32 ; D3DVB0 ; D6RAQ3 ; E7EUI9
Molecular Weight	69,249 Da
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
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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