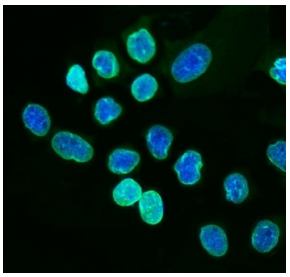
Lamin A Antibody (R31693)

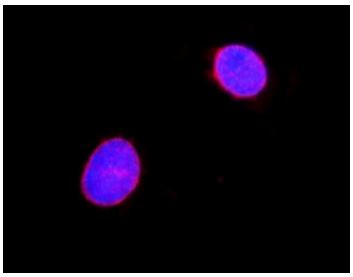
Catalog No.	Formulation	Size
R31693	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

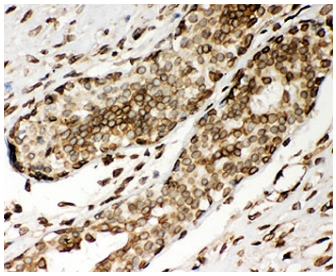
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
Gene ID	4000
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 0.5-1ug/ml Immunofluorescence (FFPE): 2-4ug/ml Flow cytometry: 1-3ug/million cells
Limitations	This Lamin A antibody is available for research use only.



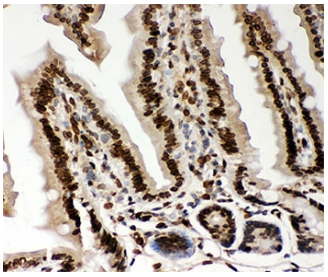
Immunofluorescent staining of FFPE human A431 cells with Lamin A antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



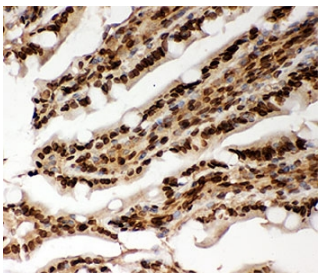
Immunofluorescent staining of FFPE mouse NIH-3T3 cells with Lamin A antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



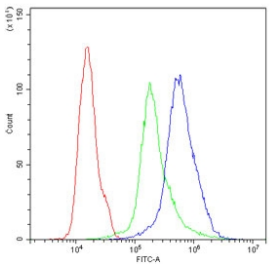
IHC-P: Lamin A antibody testing of human breast cancer tissue. HIER: steamed with pH6 citrate buffer.



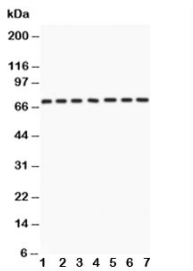
IHC-P testing of mouse intestine tissue. HIER: steamed with pH6 citrate buffer.



IHC-P testing of rat intestine tissue. HIER: steamed with pH6 citrate buffer.



Flow cytometry testing of human ThP-1 cells with Lamin A antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Lamin A antibody.



Western blot testing of Lamin A antibody and Lane 1: human placenta; 2: SKOV; 3: SW620; 4: COLO320; 5: HeLa; 6: 293T; 7: A549 lysate. Predicted molecular weight: ~74 kDa.

Description

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 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. Deficiency is thus associated with both defective nuclear mechanics and impaired mechanically activated gene transcription.

Application Notes

The stated application concentrations are suggested starting points. Titration of the Lamin A antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Human partial recombinant protein (AA 481-646) was used as the immunogen for this Lamin A antibody.

Storage

After reconstitution, the Lamin A antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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