

Datasheet for ABIN335390 **anti-Lamin A/C antibody**

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Overview

Quantity:	0.1 mg
Target:	Lamin A/C (LMNA)
Reactivity:	Human, Mouse, Rat, Cow, Dog, Hamster, Sheep
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Lamin A/C antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunocytochemistry (ICC), Flow Cytometry (FACS), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	131C3 is a mouse monoclonal IgG1/kappa antibody derived by fusion of P3/X63.Ag8.653 mouse myeloma cells with spleen cells from a BALB/c mouse immunized with purified rat liver lamins.
Clone:	131C3
Isotype:	IgG1
Specificity:	Human, rat, mouse, bovine, hamster, dog, sheep.
Characteristics:	131C3 reacts with an epitope located between residues 319-566 in lamin A and C.
Purification:	Purified

Target Details

Target:	Lamin A/C (LMNA)
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Target Details

Alternative Name: Lamin A and C ([LMNA Products](#))

Background: Nuclear lamins form a network of intermediate-type filaments at the nucleoplasmic site of the nuclear membrane. Two main subtypes of nuclear lamins can be distinguished, i.e. A-type lamins and B-type lamins. The A-type lamins comprise a set of three proteins arising from the same gene by alternative splicing, i.e. lamin A, lamin C and lamin A_{del} 10, while the B-type lamins include two proteins arising from two distinct genes, i.e. lamin B1 and lamin B2. Recent evidence has revealed that mutations in A-type lamins give rise to a range of rare but dominant genetic disorders, including Emery-Dreifuss muscular dystrophy, dilated cardiomyopathy with conduction-system disease and Dunnigan-type familial partial lipodystrophy. In addition, the expression of A-type lamins coincides with cell differentiation and as A-type lamins specifically interact with chromatin, a role in the regulation of differential gene expression has been suggested for A-type lamins.

Pathways: [Apoptosis](#), [Caspase Cascade in Apoptosis](#), [ER-Nucleus Signaling](#), [Protein targeting to Nucleus](#)

Application Details

Application Notes: 131C3 reacts with an epitope located between residues 319-566 in lamin A and C. 131C3 is suitable for immunocytochemistry, immunohistochemistry on frozen sections, immunoblotting and flow cytometry. Optimal antibody dilution should be determined by titration, recommended range is 1:100 - 1:200 for flow cytometry, and for immunohistochemistry with avidin-biotinylated horseradish peroxidase complex (ABC) as detection reagent, and 1:100 - 1:1000 for immunoblotting applications.

Restrictions: For Research Use only

Handling

Buffer: Each vial contains 100 ul 1 mg/ml purified monoclonal antibody in PBS containing 0.09% sodium azide.

Preservative: Sodium azide

Storage: 4 °C

Publications

Product cited in: Neri, Raymond, Giordano, Borgatti, Marchisio, Capitani, Martelli: "Spatial distribution of lamin A and B1 in the K562 cell nuclear matrix stabilized with metal ions." in: **Journal of cellular biochemistry**, Vol. 75, Issue 1, pp. 36-45, (1999) ([PubMed](#)).

Neri, Raymond, Giordano, Capitani, Martelli: "Lamin A is part of the internal nucleoskeleton of human erythroleukemia cells." in: **Journal of cellular physiology**, Vol. 178, Issue 3, pp. 284-95, (1999) ([PubMed](#)).

Pugh, Coates, Lane, Raymond, Quinlan: "Distinct nuclear assembly pathways for lamins A and C lead to their increase during quiescence in Swiss 3T3 cells." in: **Journal of cell science**, Vol. 110 (Pt 19), pp. 2483-93, (1997) ([PubMed](#)).

Images

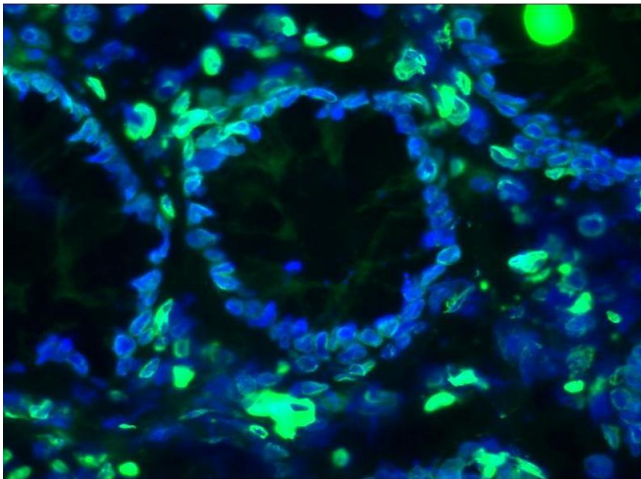


Image 1.

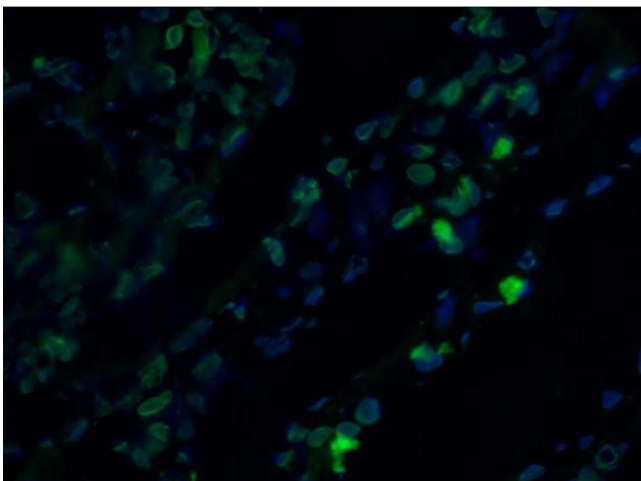


Image 2.