Datasheet for ABIN335391

anti-Lamin B1 antibody

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Overview

Quantity:	0.1 mg
Target:	Lamin B1 (LMNB1)
Reactivity:	Human, Mouse, Rat, Cow, Dog, Rabbit, Sheep, Zebrafish (Danio rerio)
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Lamin B1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunocytochemistry (ICC), Flow Cytometry (FACS)

Product Details

Immunogen:	119D5-F1 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:	119D5-F1
Isotype:	IgG1
Specificity:	Human, rat, mouse, bovine, rabbit, dog, sheep.
Purification:	Purified

Target Details

Target:	Lamin B1 (LMNB1)
Alternative Name:	Lamin B1 (LMNB1 Products)

Target Details

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 Adel 10, while the B-type lamins include two proteins arising from two distinct genes, i.e. lamin B1 and lamin B2.
Pathways:	Apoptosis, Caspase Cascade in Apoptosis

Application Details

Application Notes:	119D5-F1 reacts with an epitope located C-terminal of residue 231 in lamin B1. 119D5-F1 is suitable for immunocytochemistry, immunoblotting, ELISA and flow cytometry. Optimal antibody dilution should be determined by titration, recommended range is 1:100 - 1:200 for flow cytometry, and for immunocytochemistry with avidin-biotinylated horseradish peroxidase complex (ABC) as detection reagent, and 1:100 - 1:1000 for immunoblotting applications.
Restrictions:	For Research Use only

Handling

Storage:	4 °C

Publications

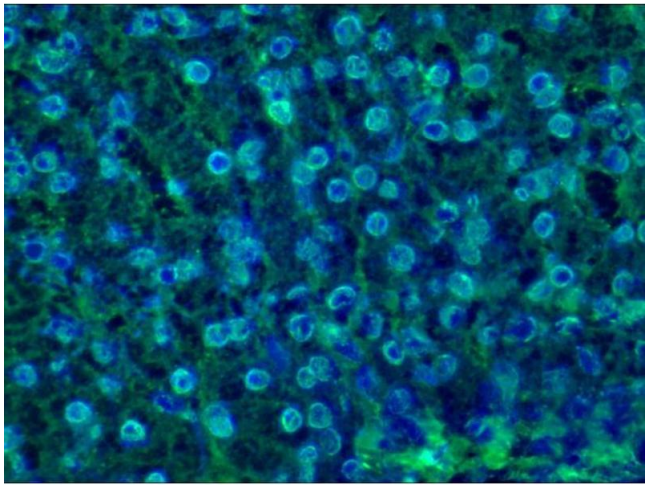
Product cited in:	Broers, Ramaekers, Bonne, Yaou, Hutchison: "Nuclear lamins: laminopathies and their role in premature ageing." in: **Physiological reviews**, Vol. 86, Issue 3, pp. 967-1008, (2006) (PubMed). Broers, Bronnenberg, Kuijpers, Schutte, Hutchison, Ramaekers: "Partial cleavage of A-type lamins concurs with their total disintegration from the nuclear lamina during apoptosis." in: **European journal of cell biology**, Vol. 81, Issue 12, pp. 677-91, (2003) (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).

Publications

Broers, Machiels, Kuijpers, Smedts, van den Kieboom, Raymond, Ramaekers: "A- and B-type lamins are differentially expressed in normal human tissues." in: **Histochemistry and cell biology**, Vol. 107, Issue 6, pp. 505-17, (1997) (PubMed).

There are more publications referencing this product on: Product page

Images



Immunohistochemistry (Frozen Sections)

Image 1. Immunohistochemistry on frozen sections of swine liver showing nuclear lamina staining in hepatocytes