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Produktinformation

- Forschungsprodukte & Biochemikalien
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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Nordic MUbio

Mouse anti Lamin A and C, conjugated to FITC

Catalogue number: **MUB1102L1**

Clone	131C3
Isotype	IgG1
Product Type	Primary Antibodies
Units	1ml
Host	Mouse
Species reactivity	Cattle Dog Hamster Human Mouse Rat Sheep
Application	Flow cytometry Immunocytochemistry Immunohistochemistry (frozen)

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. 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.

Source
131C3 is a mouse monoclonal IgG1/k 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.

Product
Each vial contains 1ml FITC-conjugated anti lamin A and C

Distributors

For Purchasing Information, please contact your local distributor

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monoclonal antibody in PBS containing 0.1% BSA, 0.09% sodium azide. Approximately 100 tests.

Applications

131C3 is suitable for immunocytochemistry, immunohistochemistry on frozen sections and flow cytometry. Optimal antibody dilutions for the different applications should be determined by titration. The recommended dilution is 1:10.

Specificity

131C3 reacts with an epitope located between residues 319-566 in lamin A and C.

Storage

Store at 4oC, or in small aliquots at -20oC.

References

1. Pugh, G. E., Coates, P. J., Lane, E. B., Raymond, Y., and Quinlan, R. A. (1997). Distinct nuclear assembly pathways for lamins A and C lead to their increase during quiescence in Swiss 3T3 cells, J Cell Sci 110:2483-93.
2. Neri, L. M., Raymond, Y., Giordano, A., Borgatti, P., Marchisio, M., Capitani, S., and Martelli, A. M. (1999). Spatial distribution of lamin A and B1 in the K562 cell nuclear matrix stabilized with metal ions, J Cell Biochem 75:36-45.
3. Neri, L. M., Raymond, Y., Giordano, A., Capitani, S., and Martelli, A. M. (1999). Lamin A is part of the internal nucleoskeleton of Human erythroleukemia cells, J Cell Physiol 178:284-95.

Caution

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