PRODUCT DATA SHEET

Mouse (monoclonal) Anti-Rat Lamin B1

Product reference no: IQ169
Quantity: 0.1ml (1mg/ml)
Clone no: 119D5-F1
Host/Isotype: Mouse IgG1/κ
Immunogen: Purified rat liver lamins
Myeloma/fusion partners: P3/X63.Ag8.653 mouse myeloma cells with spleen cells from a BALB/c mouse
Specificity: Reacts with an epitope located C-terminal of residue 231 in lamin B1. Reacts with lamin B1 from human, rat, mouse, bovine, rabbit, dog, sheep.

Purification: Purified antibody in PBS containing 0.09% sodium azide.

Applications: Suitable for immunocytochemistry, immunoblotting, ELISA and flow cytometry.

Immunostaining reactions of lamin antibodies with human epidermis.

a) Lamin A ; b) Lamin B1 ; c) Lamin B2
One-dimensional immunoblotting of lamin antibodies. Lysates of a cell line were immunoprecipitated with the lamin B1 antibody 119D5-F1 (panel A), the lamin B2 antibody LN43 (panel B) and the lamin A antibody 133A2 (panel C). The immunoprecipitated heavy and light chains of immunoglobulins recognized by the secondary antibody are indicated by h and l, respectively.

**Dilutions:**
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.

**Technical notes:**
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.

**References:**


**Storage:**

Store at +4°C for one month, or in small aliquots at -20°C for longer periods. Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody.

**Health & Safety:**

Products that contain sodium azide (a poisonous and hazardous substance) should be handled by trained staff only.