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Monoclonal Antibody to Lamin-A/C (LMNA) - Supernatant

Alternate names: 70 kDa Lamin, LMN1, LMNA, Lamin A, Lamin A + C, Lamin-A/C, NY-REN-32, NYREN32, Nuclear Envelope Marker, Renal carcinoma antigen NY-REN-32

Catalog No.: SM5157

Quantity: 0.2 ml

Background: Lamins are a class of intermediate filament proteins that form a matrix on the inner surface of the nuclear envelope. These proteins are found in many different cell types in three different forms (A, B, and C). Lamins A and C are alternatively spliced versions of the LMNA gene. The LMNA gene has been linked to many disorders of the muscular system, nervous system, and the fat distributions systems including: Emery-Dreifuss muscular dystrophy, Dunnigan-type familial partial lipodystrophy (FPLD), limb-girdle muscular dystrophy (LGMD1B), dilated cardiomyopathy (CMD1A), axonal neuropathy (Charcot-Marie-Tooth disease; CMT2B1), and mandibuloacral dysplasia (MAD).

Uniprot ID: P02545

NCBI: NP_005563.1

GeneID: 4000

Host / Isotype: Mouse / IgG2b

Clone: mab636

Immunogen: Porcine lamin preparation

Format: **State:** Liquid tissue culture supernatant containing 0.05% sodium azide

Applications: Western Blot (1/100): detects ~ 70 and 65 kDa proteins corresponding to lamin A and C, respectively, from HeLa cell extract.
Immunofluorescence (1/100).
Immunohistochemistry on frozen sections (1/100).
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: This antibody detects lamin A/C from human, bovine and porcine samples. Other species not tested.

Add. Information: SM5157 has been widely used for detection of lamin A/C control in siRNA experiments.

Storage: Store the antibody at -20°C.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

General Readings: Nature, 411:494-498, 2001.
Exp. Cell Res., 190:185-194, 1990.

Pictures:

Figure 2 shows immunofluorescence staining of lamin A/C in HeLa cells using SM5157.

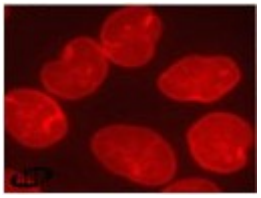

Figure 1 shows a Western blot of lamin A/C from HeLa cell extract using SM5157.