

Anti-Lamin A/C Antibody

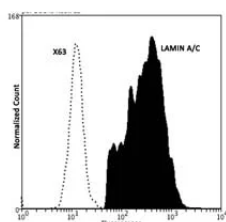
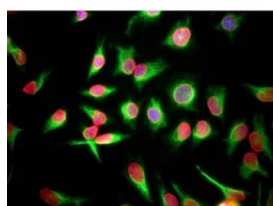


Product Details

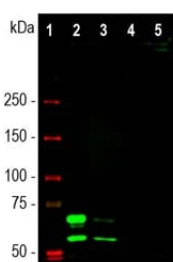
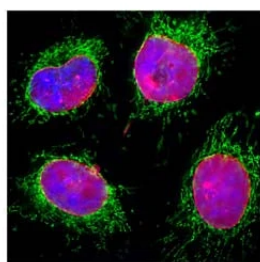
Available Variants	100 µg (SKU:M-1689-100)
Conjugate	Unconjugated
Isotype	IgG1
Clone	4C4
Host Species	Mouse
Format	IgG
Physical State	Lyophilized
Buffer	Lyophilized from PBS buffer pH 7.2-7.6 with 5% trehalose, and sodium azide
Production Notes	Protein G purified
Applications	Flow, ICC, WB
Dilution Ranges	WB: 1:1000-1:2000 ICC: 1:500-1:1000
Species Reactivity	Human
Immunogen	Full length recombinant human Lamin C
Specificity	Does not react with mouse and rat.
Storage	Spin vial briefly before opening. Reconstitute with 100 µL sterile-filtered, ultrapure water to achieve a 1 mg/mL concentration. Centrifuge to remove any insoluble material. After reconstitution of lyophilized antibody, aliquot and store at -20°C for a higher stability. Avoid freeze-thaw cycles.
UniProt ID	P02545
Country of Origin	United States
Shipping	25°C (ambient)

Expiration	12 months after date of receipt (unopened vial).
Usage Statement	For research use only.

Product Images



Left: HeLa cells stained with M-1689-100 (red), and counterstained with chicken polyclonal antibody to Vimentin (green, C-1409-50). The The Lamin A/C antibody reveals strong nuclear lamina staining, while the Vimentin antibody reveals cytoplasmic intermediate filaments. The blue stain reveals DNA in the nuclei of these cells. **Right:** Analysis of Lamin A/C expression in human prostate cancer DU145 cell line by FLOW Cytometry. Fixing and Permeabilization of cells: Absolute methanol (10 minutes in ice) and 0.1% Tween-20 in PBS, Blocking: 200 µg/mL Normal Sheep IgG (20 minutes), Primary antibody: Mouse Monoclonal antibody to Lamin A/C (cat # M-1689-100, 2 µg per $\sim 10^6$ cells) for 30 minutes at room temperature, Secondary antibody: Goat anti-mouse PE labeled secondary antibody (1:100 fold dilution) with incubation for 20 minutes in dark at room temperature. Non-specific Control IgG, clone X63 (cat # M-1249-100) was used as negative control under same conditions (black dashed). Flow cytometry data and results were generated using Orflo MoxiflowTM instrument and protocols.



Left: Lamin A/C expression in HeLa cells, stained with mouse antibody to lamin A/C (red, 1:2,000) by **Immunocytochemistry**. Co-staining was performed with a rabbit anti-HSP60 antibody (green). Blue: Hoechst nuclear stain. The lamin A/C antibody specifically labels the nuclear lamina. **Right: Western blot** analysis of lamin A/C expression in cell lysates using mouse anti-lamin A/C antibody (green, 1:1,000). [1] protein standard, [2] HeLa, [3] HEK293 [4] C6, and [5] NIH-3T3 cell lysates. Two strong bands at 74 and 65 kDa correspond to the lamin A and lamin C proteins, respectively, detected only in the cells of human origin. The lamin A/C antibody does not recognize rat or mouse proteins.



