Lamin A/C Monoclonal Antibody

catalog number: AN005340L

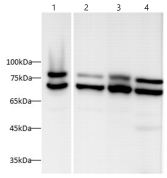
Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

Description

Reactivity	Human
Immunogen	Recombinant human Lamin A/C protein expressed by E.coli
Host	Mouse
Isotype	IgG1
Clone	4F1
Purification	Protein A/G Purification
Buffer	PBS with 0.05% Proclin300, 1% protective protein and 50% glycerol, pH7.4

Applications	Recommended Dilution
WB	1:2000-1:4000
IF	1:500-1:1000

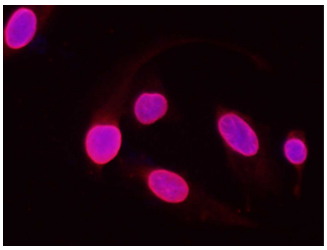
Data



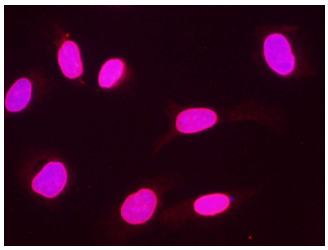
Western blot with Anti Lamin A/C Monoclonal Antibody at dilution of 1:3000. Lane 1: SH-SY5Y cell lysate, Lane 2: HL-60 cell lysate, Lane 3: U-87 MG cell lysate, Lane 4: Hep G2 cell lysate.

Observed-MW:70,80 kDa

Calculated-MW:65 kDa



Immunofluorescence analysis of HeLa cells using Lamin A/C Monoclonal Antibody at dilution of 1:500.



Immunofluorescence analysis of U-2 OS cells using Lamin A/C Monoclonal Antibody at dilution of 1:500.

Preparation & Storage

Storage	Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.
Shipping	The product is shipped with ice pack, upon receipt, store it immediately at the temperature recommended.

Background

Toll-free: 1-888-852-8623
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Lamin A/C is also named as LMNA,or LMN1. The lamin family of proteins make up the matrix and are highly conserved in evolution. During mitosis,the lamina matrix is reversibly disassembled as the lamin proteins are phosphorylated. Lamin proteins are thought to be involved in nuclear stability,chromatin structure and gene expression. The lack of lamin A/C can be as a novel marker for undifferentiated embryonic stem cells and lamin A/C expression is as an early indicator of differentiation (PMID: 16179429). Mutations in this gene lead to several diseases: Emery-Dreifuss muscular dystrophy, familial partial lipodystrophy,limb girdle muscular dystrophy,dilated cardiomyopathy,Charcot-Marie-Tooth disease,and Hutchinson-Gilford progeria syndrome. This protein has 4 isoforms produced by alternative splicing with the molecular weight of 74 kDa,65 kDa,70 kDa and 64 kDa. This antibody can recognize 4 isoforms of Lamin A/C.

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