

Lamin B1 mouse monoclonal antibody

Catalog: AP1023M

Host: Mouse

Reactivity: Human, Mouse, Rat

BackGround:

An important part of the nucleus is formed by nuclear lamina. Nuclear lamins form a network of 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 Adell0, while the B-type lamins include two proteins arising from two distinct genes, i.e. lamin B1 and lamin B2. The nuclear lamins comprise a unique subclass of the intermediate filament protein family. They share a molecular domain organisation with the other intermediate filament proteins in that they are fibrous molecules that have an aminoterminal globular head, a central rod of alpha helices and a carboxy terminal globular domain. Many biochemical and molecular features of lamins have been studied, but their functions remain still largely undetermined. One of the functions ascribed to the lamina is the maintenance of the structural integrity of the nucleus.

Product:

2mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

Molecular Weight:

~ 66 kDa

Swiss-Prot:

P20700

Purification&Purity:

The antibody was affinity-purified from cell culture supernatant by protein A+G and the purity is > 95% (by SDS-PAGE).

Applications:

WB: 1:5000~1:20000

IHC/IF: 1:50~1:200

IP: 1:50~1:200

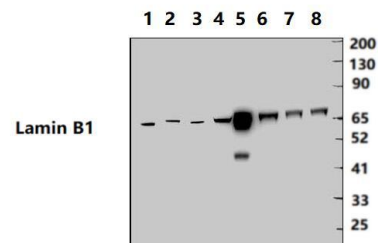
Storage&Stability:

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.

Specificity:

Lamin B1 monoclonal antibody detects endogenous levels of Lamin B1 protein.

DATA:



Western blot (WB) analysis of Lamin B1 monoclonal antibody at 1:5000 dilution

Lane1:HepG2 whole cell lysate(20ug)

Lane2:HeLa whole cell lysate(20ug)

Lane3:A549 whole cell lysate(20ug)

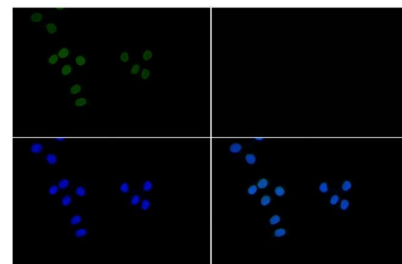
Lane4:HEK293T whole cell lysate(20ug)

Lane5:The Spleen tissue lysate of Mouse(20ug)

Lane6:The Kidney tissue lysate of Mouse(20ug)

Lane7:The Liver tissue lysate of Rat(20ug)

Lane8:The Kidney tissue lysate of Rat(20ug)



Immunofluorescence analysis of HepG2 cells using Lamin B1 antibody at dilution of 1:50.

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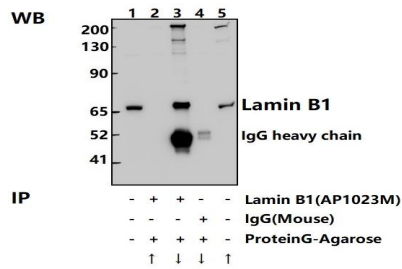
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Note:

For research use only, not for use in diagnostic procedure.

Immunoprecipitation of HepG2 using Lamin B1 mAb (Sepharose Bead Conjugate) #BD0048 (lane 2 and lane 3) and Nonspecific IgG Control (Sepharose Bead Conjugate) #BD0048 (lane 4 and lane 5). Lane 1 is 30% input. The western blot was probed using Lamin B1 mAb. “↑”(supernatant); “↓”(deposition)

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