Product datasheet

Anti-Lamin B1/LMNB1 Antibody (Clone#DC-12)

Catalog Number: *BM3891*

BOSTER
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator,
East Lake High-Tech Development Zone, Wuhan.
Web: www.boster.com ***Phone:*** 027-67845390/1/2 ***Email:*** boster@boster.com

Basic Information

Product Name	Anti-Lamin B1/LMNB1 Antibody (Clone#DC-12)
Gene Name	LMNB1
Source	Rabbit
Clonality	Monoclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC, ICC/IF, IP
Contents	500 ug/ml; Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide, 0.4-0.5 mg/ml BSA and 50% glycerol.
Immunogen	A synthesized peptide derived from human Lamin B1
Purification	Affinity-chromatography
Observed MW	72 kDa
Dilution Ratios	Western blot (WB): 1:1000-5000 Immunohistochemistry (IHC): 1:50-200 Immunocytochemistry/Immunofluorescence (ICC/IF):1:50-200 ImmunoPrecipitation (IP): 1:20

Storage

12 months from date of receipt，-20℃ as supplied. 6 months 2 to 8℃ after reconstitution. Avoid repeated freezing and thawing.

Background Information

Lamin-B1 is a protein that in humans is encoded by the LMNB1 gene. The nuclear lamina consists of a two-dimensional matrix of proteins located next to the inner nuclear membrane. 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. Vertebrate lamins consist of two types, A and B. This gene encodes one of the two B type proteins, B1.

Reference

Anti-Lamin B1/LMNB1 Antibody (Clone#DC-12)被引用在9文献中。

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Selected Validation Data

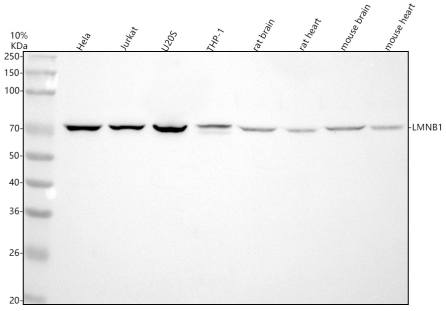
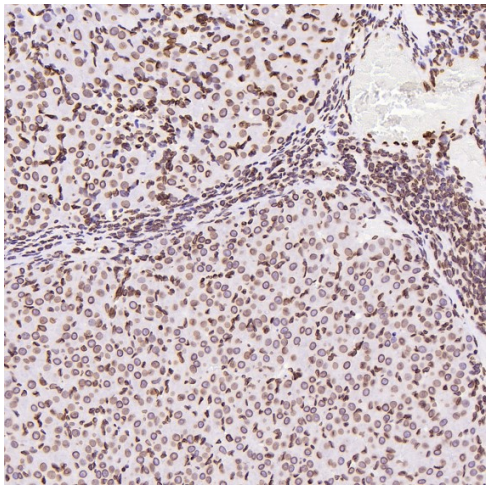


Figure 1. Western blot analysis of anti-Lamin B1/LMNB1 antibody (BM3891). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human Hela whole cell lysates,
Lane 2: human Jurkat whole cell lysates,
Lane 3: human U20S whole cell lysates,
Lane 4: human THP-1 whole cell lysates,
Lane 5: rat brain tissue lysates,
Lane 6: rat heart tissue lysates,
Lane 7: mouse brain tissue lysates,
Lane 8: mouse heart tissue lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-Lamin B1/LMNB1 antigen affinity purified monoclonal antibody (BM3891) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for Lamin B1/LMNB1 at approximately 72 kDa. The expected band size for Lamin B1/LMNB1 is at 66 kDa.



Immunohistochemical analysis of paraffin-embedded Rat ovary, using the Antibody at 1:200 dilution.

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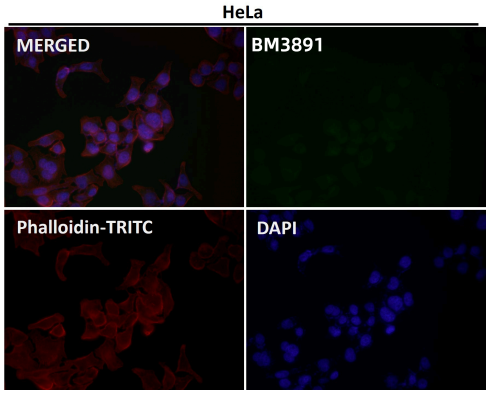

Immunofluorescent analysis using the Antibody at 1:150 dilution.