Product datasheet

Anti-Lamin B1/LMNB1 Antibody

Catalog Number: *BA1228*

BOSTER
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
Special NO.1, International Enterprise Center,
2nd Guanshan Road, Wuhan, China
Web: www.boster.com.cn ***Phone:*** +86 027-67845390 ***Fax:*** +86 027-67845390 ***Email:*** boster@boster.com.cn

Basic Information

Product Name	Anti-Lamin B1/LMNB1 Antibody
Gene Name	LMNB1
Source	Rabbit
Isotype	IgG
Species Reactivity	human,mouse,rat
Tested Application	WB, IHC, ICC, ICC/IF
Contents	500 ug/ml antibody with PBS， 0.02% NaN3 , 1 mg BSA and 50% glycerol.
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human Lamin B1(570-586aa FHQQGTPRASNRSCAIM), different from the related rat sequence by one amino acid, and from the related mouse sequence by three amino acids.
Purification	Immunogen affinity purified.
Observed MW	70KD
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry in paraffin section (IHC): 1:50-400 Immunocytochemistry in fixed cells (ICC): 1:50-400 Immunocytochemistry/Immunofluorescence (ICC/IF): 1:50-400 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

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 though 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被引用在19文献中。

Anti-Lamin B1/LMNB1 Antibody

Catalog Number: *BA1228*

BOSTER
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
Special NO.1, International Enterprise Center,
2nd Guanshan Road, Wuhan, China
Web: www.boster.com.cn ***Phone:*** +86 027-67845390 ***Fax:*** +86 027-67845390 ***Email:*** boster@boster.com.cn

Selected Validation Data

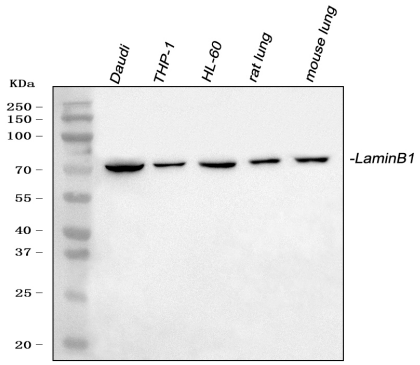

Figure 1. Western blot analysis of anti- LMNB1 antibody (BA1228). The sample well of each lane was loaded with 50ug of sample under reducing conditions.
Lane 1: human Daudi whole cell lysates,
Lane 2: human THP-1 whole cell lvsates,
Lane 3: human HL-60 whole cell lvsates,
Lane 4: rat lung tissue lysates,
Lane 5: mouse lung tissue lysates.
Use rabbit anti- LMNB1 1:1000, probed with a goat anti-rabbit IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002). A specific band was detected for LMNB1 at approximately 70KD. The expected band size for LMNB1 is at 70KD.

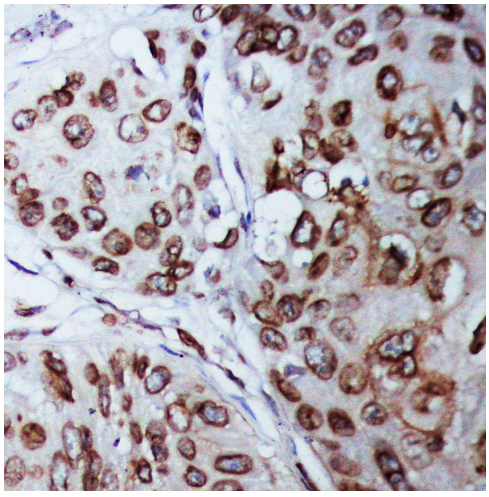

Figure 2. IHC analysis using anti- LMNB1 antibody (BA1228). detected in paraffin-embedded section of human mammary cancer tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.

BOSTER
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
Special NO.1, International Enterprise Center,
2nd Guanshan Road, Wuhan, China
Web: www.boster.com.cn ***Phone:*** +86 027-67845390 ***Fax:*** +86 027-67845390 ***Email:*** boster@boster.com.cn

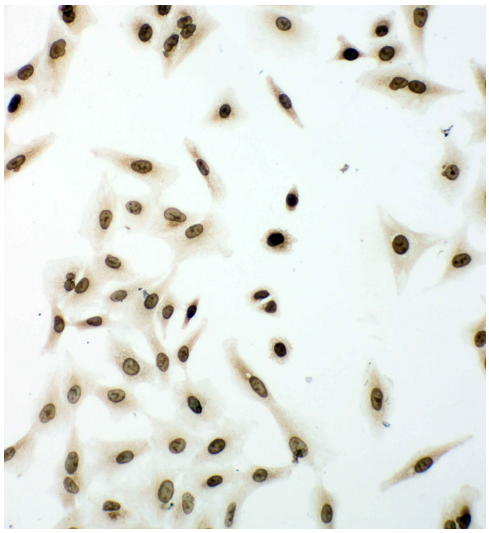

Figure 4. ICC analysis of LMNB1 using anti- LMNB1 antibody (BA1228).
LMNB1 was detected in an immunocytochemical section of A549 cells. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.

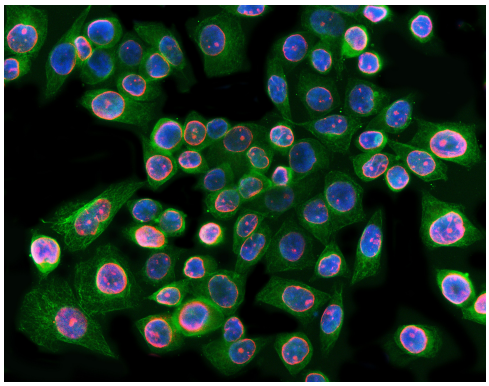

Figure 5. ICC analysis using anti- LMNB1 antibody (BA1228) and anti-Tubulin beta antibody (M01857-3). were detected in immersion fixed SiHa cell line. Cells were stained using the cy3-conjugated Anti-rabbit IgG Secondary Antibody (red)(Catalog#BA1032) and Dylight488-conjugated Anti- mouse IgG Secondary Antibody (green)(Catalog # BA1126) and counterstained with DAPI (blue).