Anti-Lamin B2/LMNB2 Antibody (Clone#ADBF-12)

Catalog Number: *BM5380*

BOSTER
antibody and ELISA experts
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Basic Information

Product Name	Anti-Lamin B2/LMNB2 Antibody (Clone#ADBF-12)
Gene Name	LMNB2
Source	Rabbit
Clonality	Monoclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC, ICC/IF, IP, FCM
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 B2 Lamins are components of the nuclear lamina, a fibrous layer on the nucleoplasmic side of the inner nuclear membrane, which is thought to provide a framework for the nuclear envelope and may also interact with chromatin.
Concentration	500 ug/ml
Purification	Affinity-chromatography
Observed MW	70 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-200 Immunocytochemistry/Immunofluorescence (ICC/IF):1:50-200 ImmunoPrecipitation (IP): 1:20 Flow Cytometry (FCM): 1:20

Storage

12 months from date of receipt，-20℃ as supplied.

Background Information

Lamin B2, also called LMNB2, is a protein associated with laminopathies. The LMNB2 gene is mapped to the G-negative subtelomeric band p13.3 of chromosome 19 by in situ hybridization. The LMNB2 gene contains 12 exons. Model organisms have been used in the study of Lamin B2 function. A conditional knockout mouse line, called Lmnb2, is generated as part of the International Knockout Mouse Consortium program-a high-throughput mutagenesis project to

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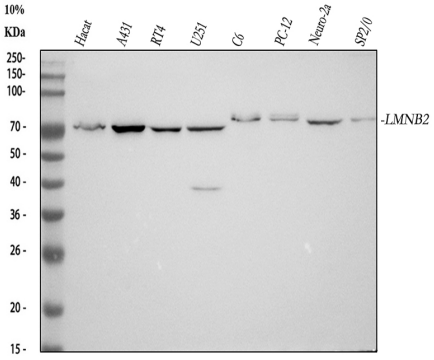
generate and distribute animal models of disease to interested scientists. A highly sensitive procedure about mapping the start site of DNA replication in a 13.7-kb region of human chromosome 19 coding for lamin B2 is developed for the identification of the origin of bidirectional DNA synthesis in single-copy replicons of mammalian cells.

Selected Validation Data



Western blot analysis of anti-Lamin B2/LMNB2 antibody (BM5380). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human Hacat whole cell lysates,
Lane 2: human A431 whole cell lysates,
Lane 3: human RT4 whole cell lysates,
Lane 4: human U251 whole cell lysates,
Lane 5: rat C6 whole cell lysates,
Lane 6: rat PC-12 whole cell lysates,
Lane 7: mouse Neuro-2a whole cell lysates,
Lane 8: mouse SP2/0 whole cell lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-Lamin B2/LMNB2 antigen affinity purified monoclonal antibody (BM5380) 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 B2/LMNB2 at approximately 72 kDa. The expected band size for Lamin B2/LMNB2 is at 70 kDa.

Product datasheet

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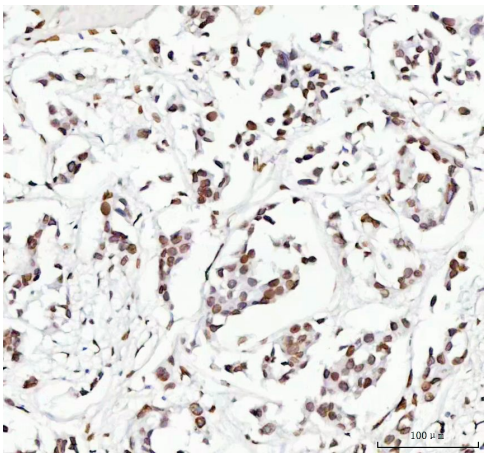

IHC analysis of Lamin B2/LMNB2 using anti-Lamin B2/LMNB2 antibody (BM5380) .
Lamin B2/LMNB2 was detected in a paraffin-embedded section of human breast cancer tissue. The tissue section was incubated with rabbit anti-Lamin B2/LMNB2 Antibody (BM5380) at a dilution of 1:200 and developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1027) as the chromogen.