Product datasheet

# Anti-Lamin B2/LMNB2 Antibody

**Catalog Number: *BA3686***

BOSTER®
antibody and ELISA experts
**BOSTER BIOLOGICAL TECHNOLOGY**
Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator,
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## Basic Information

| | |
|---|---|
| **Product Name** | Anti-Lamin B2/LMNB2 Antibody |
| **Gene Name** | LMNB2 |
| **Source** | Rabbit |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Species Reactivity** | human, mouse, rat |
| **Tested Application** | WB, IHC |
| **Contents** | 500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol. |
| **Immunogen** | A synthetic peptide corresponding to a sequence at the C-terminus of human Lamin B2, identical to the related rat and mouse sequences. |
| **Concentration** | 500 ug/ml |
| **Purification** | Immunogen affinity purified. |
| **Observed MW** | 70 kDa |
| **Dilution Ratios** | Western blot (WB): 1:500-2000<br>Immunohistochemistry (IHC): 1:50-400<br>(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.

## 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 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.

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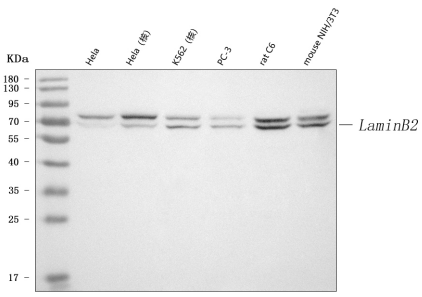
## Reference

Anti-Lamin B2/LMNB2 Antibody被引用在4文献中。

## Selected Validation Data




Western blot analysis of Lamin B2/LMNB2 using anti-Lamin B2/LMNB2 antibody (BA3686). 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 Hela (nucleus) lysates,
Lane 3: human K562 (nucleus) lysates,
Lane 4: human PC-3 whole cell lysates,
Lane 5: rat C6 whole cell lysates,
Lane 6: mouse NIH/3T3 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 polyclonal antibody (BA3686) 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 70 kDa. The expected band size for Lamin B2/LMNB2 is at 70 kDa.

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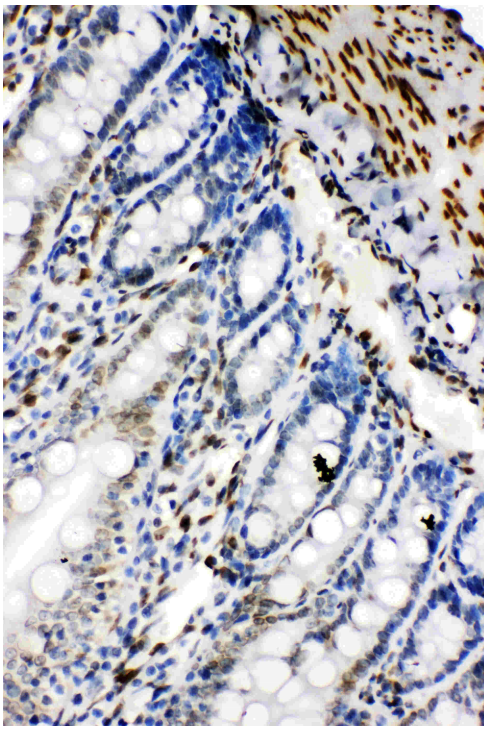

IHC analysis of Lamin B2/LMNB2 using anti-Lamin B2/LMNB2 antibody (BA3686).
Lamin B2/LMNB2 was detected in a paraffin-embedded section of rat intestine tissue. The tissue section was incubated with rabbit anti-Lamin B2/LMNB2 Antibody (BA3686) at a dilution of 1:200 and developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1027) as the chromogen.