

Datasheet for ABIN2782509

**anti-Lamin B1 antibody (Middle Region)****2** Images**1** Publication[Go to Product page](#)

## Overview

|                      |                                                        |
|----------------------|--------------------------------------------------------|
| Quantity:            | 100 µL                                                 |
| Target:              | Lamin B1 (LMNB1)                                       |
| Binding Specificity: | Middle Region                                          |
| Reactivity:          | Human, Mouse, Rat, Cow, Dog, Rabbit, Horse, Guinea Pig |
| Host:                | Rabbit                                                 |
| Clonality:           | Polyclonal                                             |
| Conjugate:           | This Lamin B1 antibody is un-conjugated                |
| Application:         | Western Blotting (WB)                                  |

## Product Details

|                       |                                                                                                                                 |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Immunogen:            | The immunogen is a synthetic peptide directed towards the middle region of human LMNB1                                          |
| Sequence:             | EEVAQRSTVF KTTIPEEEEE EEEAAGVVVE EELFHQQGTP RASNRSCAIM                                                                          |
| Predicted Reactivity: | Cow: 86%, Dog: 100%, Guinea Pig: 100%, Horse: 86%, Human: 100%, Mouse: 91%, Rabbit: 100%, Rat: 100%                             |
| Characteristics:      | This is a rabbit polyclonal antibody against LMNB1. It was validated on Western Blot using a cell lysate as a positive control. |
| Purification:         | Affinity Purified                                                                                                               |

## Target Details

|         |                  |
|---------|------------------|
| Target: | Lamin B1 (LMNB1) |
|---------|------------------|

## Target Details

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Alternative Name: | LMNB1 ( <a href="#">LMNB1 Products</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Background:       | <p>LAMNB1 encodes for one of the two B type proteins of the nuclear lamina, B1. The Vertebrate lamins consist of two types, A and B. 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. 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. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications.</p> <p>Alias Symbols: ADLD, LMN, LMN2, LMNB, MGC111419</p> <p>Protein Interaction Partner: POU2F1, SPRTN, UBC, SUMO2, SUMO3, MDM2, EED, ACTR10, NCAPH, ZZEF1, DCTN3, DCTN2, ACTR1A, ACTR1B, PARK2, HECW2, YWHAQ, ADRB2, LMNA, MELK, URB2, FN1, ATF4, SERPINA3, ABCG8, MBIP, GIT2, WHSC1, VCAM1, ITGA4, PRKCB, CDK1, MAGT1, HP1BP3, NCSTN, HNRNPM, EIF6, IL</p> <p>Protein Size: 586</p> |
| Molecular Weight: | 66 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Gene ID:          | 4001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| NCBI Accession:   | <a href="#">NM_005573</a> , <a href="#">NP_005564</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| UniProt:          | <a href="#">P20700</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Pathways:         | <a href="#">Apoptosis</a> , <a href="#">Caspase Cascade in Apoptosis</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

## Application Details

|                    |                                                                                    |
|--------------------|------------------------------------------------------------------------------------|
| Application Notes: | Optimal working dilutions should be determined experimentally by the investigator. |
| Comment:           | Antigen size: 586 AA                                                               |
| Restrictions:      | For Research Use only                                                              |

## Handling

|                    |                                                                                                                                         |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Format:            | Liquid                                                                                                                                  |
| Concentration:     | Lot specific                                                                                                                            |
| Buffer:            | Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.                                     |
| Preservative:      | Sodium azide                                                                                                                            |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.                  |
| Handling Advice:   | Avoid repeated freeze-thaw cycles.                                                                                                      |
| Storage:           | -20 °C                                                                                                                                  |
| Storage Comment:   | For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles. |

## Publications

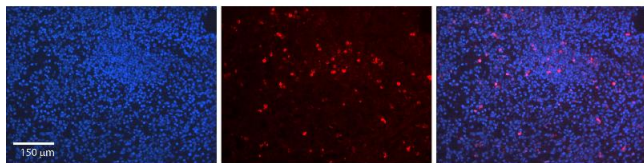
|                   |                                                                                                                                                                                                                                                                                       |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product cited in: | Lee, Seng, Sekine, Hinton, Fu, Avraham, Avraham: "Vascular endothelial growth factor mediates intracrine survival in human breast carcinoma cells through internally expressed VEGFR1/FLT1." in: <b>PLoS medicine</b> , Vol. 4, Issue 6, pp. e186, (2007) ( <a href="#">PubMed</a> ). |
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## Images



### Western Blotting

**Image 1.** WB Suggested Anti-LMNB1 Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:1562500 Positive Control: SK-MEL-2 cell lysate LMNB1 is supported by BioGPS gene expression data to be expressed in SKMEL2



### Immunohistochemistry

**Image 2.** Rabbit Anti-LMNB1 Antibody Formalin Fixed Paraffin Embedded Tissue: Human Lymph Node Tissue  
Observed Staining: Nucleus Primary Antibody  
Concentration: 1:600 Other Working Concentrations: N/A  
Secondary Antibody: Donkey anti-Rabbit-Cy3 Secondary  
Antibody Concentration: 1:200 Magnification: 20X Exposure  
Time: 0.5 - 2.0 sec