

Product datasheet

Anti-Lamin B2 antibody [EPR9701(B)] ab151735

Recombinant RabMAb

★★★★☆ **2 Abreviews** **33 References** [7 Images](#)

Overview

Product name	Anti-Lamin B2 antibody [EPR9701(B)]
Description	Rabbit monoclonal [EPR9701(B)] to Lamin B2
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt (Intra), WB, IHC-P, IP, ICC/IF
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide within Human Lamin B2 aa 550 to the C-terminus (C terminal). The exact sequence is proprietary. Database link: Q03252
Positive control	IP: HepG2 cell lysate; IHC: Human bladder cancer tissue; ICC/IF: HepG2 cells; WB: HepG2 and HeLa cells, Mouse and rat testis and rat spleen lysates. Flow Cyt (intra): HepG2 cells.
General notes	<p>The human and rat recommendation is based on the WB results. We do not guarantee IHC-P for human and rat.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p> <p>We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long

term. Avoid freeze / thaw cycle.

Storage buffer

pH: 7.20
Preservative: 0.01% Sodium azide
Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA

Purity

Protein A purified

Clonality

Monoclonal

Clone number

EPR9701(B)

Isotype

IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab151735 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt (Intra)		1/20.
WB		1/2000. Predicted molecular weight: 68 kDa. For unpurified use at 1/1000 - 1/10000.
IHC-P		1/100. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. See IHC antigen retrieval protocols . For unpurified use at 1/50 - 1/100. The human and rat recommendation is based on the WB results. We do not guarantee IHC-P for human and rat.
IP		1/10 - 1/100.
ICC/IF	★★★★☆ (2)	1/50. For unpurified use at 1/250 - 1/500.

Target

Function

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.

Involvement in disease

Defects in LMNB2 are a cause of partial acquired lipodystrophy (APLD) [MIM:608709]. A rare childhood disease characterized by loss of subcutaneous fat from the face and trunk. Fat deposition on the pelvic girdle and lower limbs is normal or excessive. Most frequently, onset between 5 and 15 years of age. Most affected subjects are females and some show no other abnormality, but many develop glomerulonephritis, diabetes mellitus, hyperlipidemia, and complement deficiency. Mental retardation in some cases. APLD is a sporadic disorder of unknown etiology.

Sequence similarities

Belongs to the intermediate filament family.

Post-translational

B-type lamins undergo a series of modifications, such as farnesylation and phosphorylation.

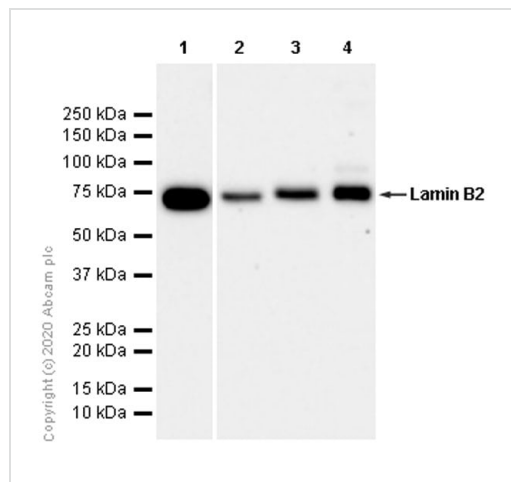
modifications

Increased phosphorylation of the lamins occurs before envelope disintegration and probably plays a role in regulating lamin associations.

Cellular localization

Nucleus inner membrane.

Images



Western blot - Anti-Lamin B2 antibody
[EPR9701(B)] (ab151735)

All lanes : Anti-Lamin B2 antibody [EPR9701(B)] (ab151735) at 1/2000 dilution (Purified)

Lane 1 : HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate

Lane 2 : Mouse testis lysate

Lane 3 : Rat spleen lysate

Lane 4 : Rat testis lysate

Lysates/proteins at 20 µg per lane.

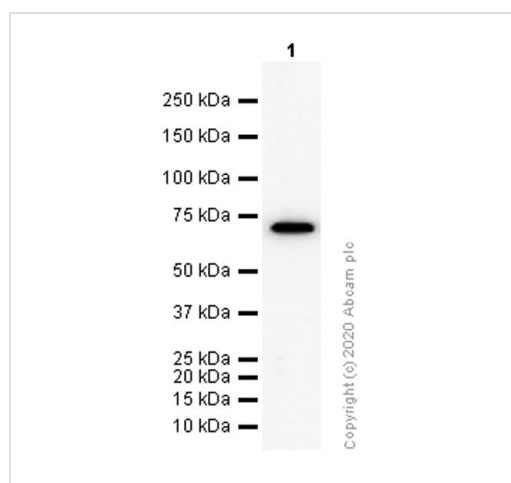
Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

Predicted band size: 68 kDa

Observed band size: 68 kDa

Blocking Buffer and concentration: 5% NFD/MTBST



Western blot - Anti-Lamin B2 antibody
[EPR9701(B)] (ab151735)

Anti-Lamin B2 antibody [EPR9701(B)] (ab151735) at 1/2000 dilution (Purified) + HepG2 (Human hepatocellular carcinoma epithelial cell) whole cell lysate at 15 µg

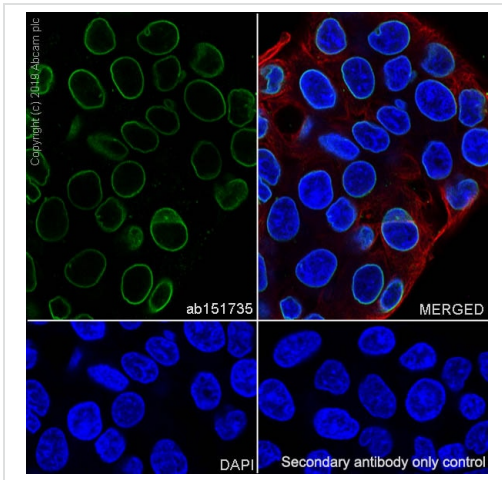
Secondary

Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

Predicted band size: 68 kDa

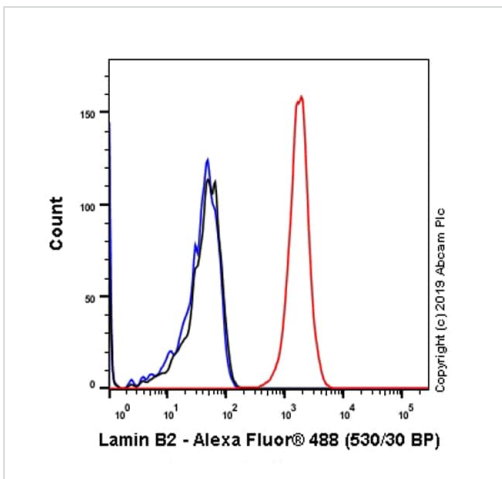
Observed band size: 68 kDa

Blocking Buffer and concentration: 5% NFD/MTBST



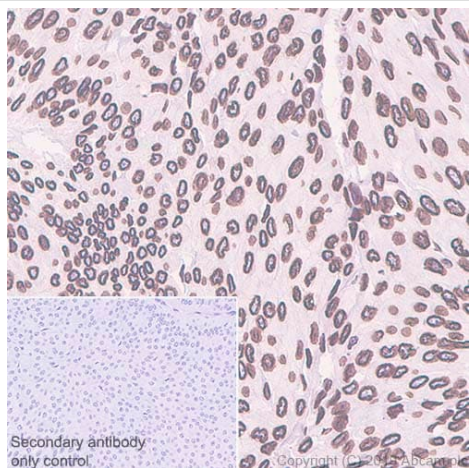
Immunocytochemistry/ Immunofluorescence - Anti-Lamin B2 antibody [EPR9701(B)] (ab151735)

Immunocytochemistry analysis of HepG2 (Human hepatocellular carcinoma epithelial cell) cells labeling Lamin B2 with Purified ab151735 at 1:50 dilution (2.18 µg/ml). Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% tritonX-100. Cells were counterstained with Ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor®594) 1:200 (2.5 µg/ml). Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) was used as the secondary antibody at 1:1000 (2 µg/ml) dilution. DAPI (blue) was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



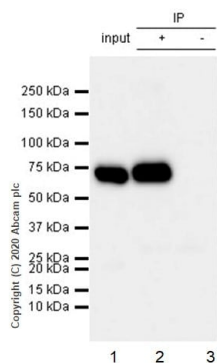
Flow Cytometry (Intracellular) - Anti-Lamin B2 antibody [EPR9701(B)] (ab151735)

Intracellular Flow Cytometry analysis of HepG2 (Human hepatocellular carcinoma epithelial cell) cells labeling Lamin B2 with Purified ab151735 at 1/20 dilution (10 µg/ml) (Red). Cells were fixed with 4% Paraformaldehyde and permeabilised with 90% Methanol. A Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) secondary antibody was used at 1/2000. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Lamin B2 antibody [EPR9701(B)] (ab151735)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human bladder cancer tissue sections labeling Lamin B2 with Purified ab151735 at 1:100 dilution (1.09 µg/ml). Perform heat mediated antigen retrieval using [ab93684](#) (Tris/EDTA buffer, pH 9.0). ImmunoHistoProbe one step HRP Polymer (ready to use) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



Immunoprecipitation - Anti-Lamin B2 antibody [EPR9701(B)] (ab151735)

Purified ab151735 at 1/20 dilution (0.5µg) immunoprecipitating Lamin B2 in HepG2 whole cell lysate.
 Lane 1 (input): HepG2 (Human hepatocellular carcinoma epithelial cell) whole cell lysate 10µg
 Lane 2 (+): ab151735 + HepG2 whole cell lysate.
 Lane 3 (-): Rabbit monoclonal IgG ([ab172730](#)) instead of ab151735 in HepG2 whole cell lysate.
 VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)) (1/1000 dilution) was used for Western blotting.
 Blocking Buffer and concentration: 5% NFDm/TBST.
 Diluting buffer and concentration: 5% NFDm/TBST.
 Observed band size: 68 kDa

Why choose a recombinant antibody?



Research with confidence
 Consistent and reproducible results



Long-term and scalable supply
 Recombinant technology



Success from the first experiment
 Confirmed specificity



Ethical standards compliant
 Animal-free production

Anti-Lamin B2 antibody [EPR9701(B)] (ab151735)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours

- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors