

Rabbit anti-Human, Rat Lamin B2/LMNB2 Polyclonal Antibody | anti-LMNB2 antibody

Anti-Lamin B2/LMNB2 Antibody Picoband

CATALOG # AAA127291	HOST Rabbit	REACTIVITY Human, Rat	APPLICATIONS ELISA, Immunohistochemistry, Western Blot
-------------------------------	-----------------------	---------------------------------	--

PRODUCT SYNONYMS

Lamin B2/LMNB2; Polyclonal Antibody; Anti-Lamin B2/LMNB2 Antibody Picoband; anti-LMNB2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-LMNB2 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E coli-derived human Lamin B2/LMNB2 recombinant protein (Position: L128-E585). Human LMNB2 shares 81.8% amino acid (aa) sequence identity with mouse LMNB2.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 5. Flow Cytometry analysis of THP-1 cells using anti-Lamin B2/LMNB2 antibody (AAA127291). Overlay histogram showing THP-1 cells stained with AAA127291 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Lamin B2/LMNB2 Antibody (AAA127291, 1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



IHC (Immunohistochemistry)

Figure 4. IHC analysis of Lamin B2/LMNB2 using anti-Lamin B2/LMNB2 antibody (AAA127291). Lamin B2/LMNB2 was detected in a paraffin-embedded section of rat testis tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-Lamin B2/LMNB2 Antibody (AAA127291) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



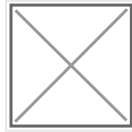
IHC (Immunohistochemisry)

Figure 3. IHC analysis of Lamin B2/LMNB2 using anti-Lamin B2/LMNB2 antibody (AAA127291). Lamin B2/LMNB2 was detected in a paraffin-embedded section of human colon cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-Lamin B2/LMNB2 Antibody (AAA127291) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



IHC (Immunohiostchemistry)

Figure 2. IHC analysis of Lamin B2/LMNB2 using anti-Lamin B2/LMNB2 antibody (AAA127291). Lamin B2/LMNB2 was detected in a paraffin-embedded section of human bladder cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-Lamin B2/LMNB2 Antibody (AAA127291) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of Lamin B2/LMNB2 using anti-Lamin B2/LMNB2 antibody (AAA127291). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human HepG2 whole cell lysates, Lane 2: human Jurkat whole cell lysates, Lane 3: human Raji whole cell lysates, Lane 4: human Hacat whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Lamin B2/LMNB2 antigen affinity purified polyclonal antibody (#AAA127291) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for Lamin B2/LMNB2 at approximately 72 kDa. The expected band size for Lamin B2/LMNB2 is at 68 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-LMNB2 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-LMNB2 antibody	Primary Antibodies
References	1. Biamonti, G., Giacca, M., Perini, G., Contreas, G., Zentilin, L., Weighardt, F., Guerra, M., Della Valle, G., Saccone, S., Riva, S., Falaschi, A. The gene for a novel human lamin maps at a highly transcribed locus of chromosome 19 which replicates at the onset of S-phase. <i>Molec. Cell. Biol.</i> 12: 3499-3506, 1992. 2. Damiano, J. A., Afawi, Z., Bahlo, M., Mauermann, M., Misk, A., Arsov, T., Oliver, K. L., Dahl, H.-H. M., Shearer, A. E., Smith, R. J. H., Hall, N. E., Mahmood, K., Leventer, R. J., Scheffer, I. E., Muona, M., Lehesjoki, A.-E., Korczyn, A. D., Herrmann, H., Berkovic, S. F., Hildebrand, M. S. Mutation of the nuclear lamin gene LMNB2 in progressive myoclonus epilepsy with early ataxia. <i>Hum. Molec. Genet.</i> 24: 4483-4490, 2015.3. Gao, J., Li, Y., Fu, X., Luo, X. A Chinese patient with acquired partial lipodystrophy caused by a novel mutation with LMNB2 gene. <i>J. Pediatr. Endocr. Metab.</i> 25: 375-377, 2012.

NCBI AND UNIPROT INFORMATION

NCBI GI #	23503078
NCBI GeneID	84823
UniProt Accession #	Q03252 ; O75292 ; Q14734 ; Q96DF6
Molecular Weight	67,689 Da
NCBI Official Full Name	Lamin-B2
NCBI Official Synonym Full Names	lamin B2

NCBI Official Symbol	LMNB2
NCBI Official Synonym Symbols	LMN2; LAMB2
NCBI Protein Information	lamin-B2
UniProt Protein Name	Lamin-B2
UniProt Gene Name	LMNB2
UniProt Synonym Gene Names	LMN2
UniProt Entry Name	LMNB2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/lamin-b2-lmnb2-antibody-immunohistochemistry-western-blot-elisa/127291>