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Anti-Laminin/Lamc1/Lamc2/Lamc3 Antibody Picoband®

Catalog Number: PB9142

About Lamc1

Laminins are major proteins in the basal lamina (one of the layers of the basement membrane), a protein network foundation for most cells and organs. Laminins form independent networks and are associated with type IV collagen networks via entactin, fibronectin, and perlecan. They are important and biologically active parts of the basal lamina, influencing cell differentiation, migration, and adhesion, as well as phenotype and survival. Laminins are trimeric proteins that contain an alpha-chain, a beta-chain, and a gamma-chain, found in five, four, and three genetic variants, respectively. Laminins critically contribute to cell attachment and differentiation, cell shape and movement, maintenance of tissue phenotype, and promotion of tissue survival.

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Overview

Product Name	Anti-Laminin/Lamc1/Lamc2/Lamc3 Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-Laminin/Lamc1/Lamc2/Lamc3 Antibody Picoband® catalog # PB9142. Tested in IHC, IHC-F, WB applications. This antibody reacts with Human. 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.
Application	IHC, IHC-F, WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9 mg NaCl, 0.2 mg Na2HPO4, and 0.05 mg NaN3. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20˚C for one year from date of receipt. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P02468

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antibody and ELISA experts

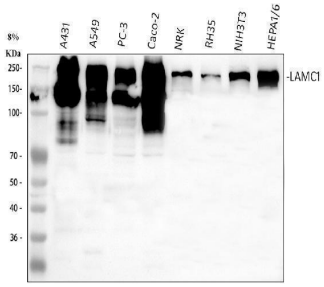
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Technical Details

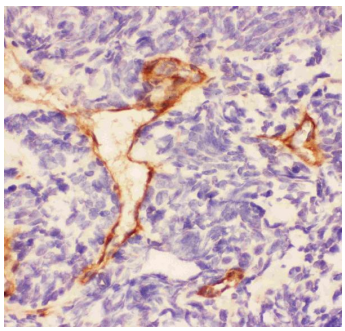
Immunogen	Peptide mixture of laminin gamma1,2,3 (DLNKLNEIEGTLNKAKDEMK; MSELEERARQQRGHLHLLET; LQRKLSLLEQESQQQELQIQ). Laminin gamma has only three subtypes of antibody to gamma1-3 reactive with all isoforms of laminin.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P) and IHC(F).
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml, Human Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human Immunohistochemistry (Frozen Section), 0.5-1ug/ml, Human

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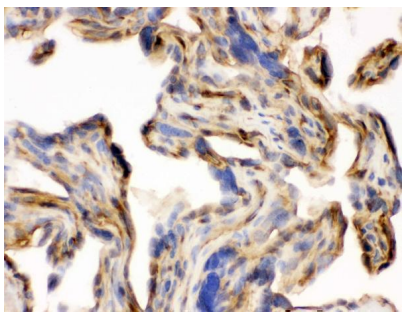
Anti-Laminin/Lamc1/Lamc2/Lamc3 Antibody Picoband® (PB9142) Images



Western blot analysis of Laminin using anti-Laminin antibody (PB9142). 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 A431 whole cell lysates, Lane 2: human A549 whole cell lysates, Lane 3: human PC-3 whole cell lysates, Lane 4: human Caco-2 whole cell lysates. Lane 5: rat NRK whole cell lysates, Lane 6: rat RH35 whole cell lysates, Lane 7: mouse NIH/3T3 whole cell lysates, Lane 8: mouse Hepa1-6 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-Laminin antigen affinity purified polyclonal antibody (Catalog # PB9142) at 0.5 ug/mL overnight at 4°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 (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for Laminin at approximately 220-250 kDa. The expected band size for Laminin is at 177 kDa.



IHC analysis of Laminin using anti-Laminin antibody (PB9142). Laminin was detected in a paraffin-embedded section of human lung 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 1 ug/ml rabbit anti-Laminin Antibody (PB9142) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.



IHC analysis of Laminin using anti-Laminin antibody (PB9142). Laminin was detected in frozen section of human placenta tissues. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-Laminin Antibody (PB9142) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.

16 Publications Citing This Product

1. PubMed ID: 10.1016/j.apsusc.2010.01.042, Biocompatibility of pure titanium modified by human endothelial cell-derived extracellular matrix

2. PubMed ID: 25063144, Lin Cy, Li Lt, Su Wt. Mater Sci Eng C Mater Biol Appl. 2014 Sep;42:474-8. Doi: 10.1016/J.Msec.2014.05.063. Epub 2014

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Jun 6. Three Dimensional Chitosan Scaffolds Influence The Extra Cellular Matrix Expression In Schwann Cells.

3. PubMed ID: 23856441, Xu L, Zheng N, He Q, Li R, Zhang K, Liang T. Phytomedicine. 2013 Oct 15;20(13):1172-9. Doi: 10.1016/J.Phymed.2013.06.008. Epub 2013 Jul 13. Puerarin, Isolated From Pueraria Lobata (Willd.), Protects Against Hepatotoxicity Via Specific Inhibition O...

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