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antibody and ELISA experts

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

Catalog Number: A03522

About Lamc1

Tumor necrosis factor ligand superfamily member 14 is a protein that in humans is encoded by the TNFSF14 gene. TNFSF14 has also been designated as CD258, as well as LIGHT. It was mapped on chromosome 19p13.3. The protein encoded by this gene is a member of the tumor necrosis factor(TNF) ligand family. This protein may function as a costimulatory factor for the activation of lymphoid cells and as a deterrent to infection by herpesvirus. It has been shown to stimulate the proliferation of T cells, and trigger apoptosis of various tumor cells. This protein is also reported to prevent tumor necrosis factor alpha mediated apoptosis in primary hepatocyte. Two alternatively spliced transcript variant encoding distinct isoforms have been reported.

Overview

Product Name	Anti-Laminin/Lamc1/Lamc2/Lamc3 Antibody Picoband™
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Laminin/Lamc1/Lamc2/Lamc3 Antibody Picoband™ catalog # A03522. Tested in IF, IHC, WB applications. This antibody reacts with Human, Mouse, Rat.
Application	IF, IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
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

Technical Details

Immunogen	Peptide mixture of laminin gamma1,2,3 (NKLNEIEGSLNKAKDEMKAS; DLEERVRRQRNHLHLLETSI; LQLDSHGALHHKLRQLEEES). 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).
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized

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Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: Western blot, 0.1-0.5ug/ml, Human, Mouse, Rat, Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Mouse, Rat, By Heat Immunofluorescence, 2ug/ml, Mouse, Rat

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Anti-Laminin/Lamc1/Lamc2/Lamc3 Antibody Picoband™ (A03522) Images

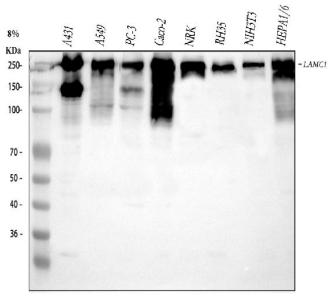

Figure 1. Western blot analysis of Laminin using anti-Laminin antibody (A03522).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human A431 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 # A03522) 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 150, 220-250 kDa. The expected band size for Laminin is at 177 kDa.

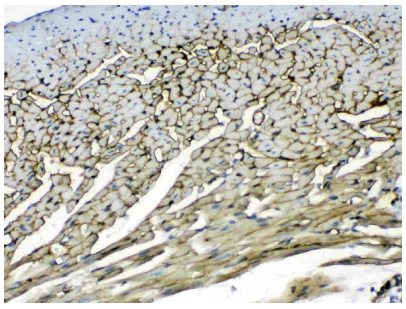

Figure 2. IHC analysis of Laminin using anti-Laminin antibody (A03522).
Laminin was detected in paraffin-embedded section of mouse heart tissue . Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-Laminin Antibody (A03522) 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.

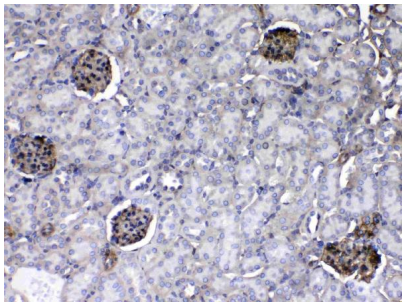

Figure 3. IHC analysis of Laminin using anti-Laminin antibody (A03522).
Laminin was detected in paraffin-embedded section of mouse kidney tissue . Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-Laminin Antibody (A03522) 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

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(SABC)(Catalog # SA1022) with DAB as the chromogen.

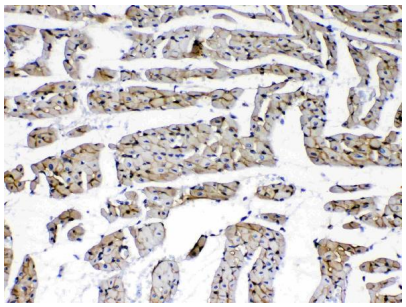

Figure 4. IHC analysis of Laminin using anti-Laminin antibody (A03522).
Laminin was detected in paraffin-embedded section of rat cardiac muscle tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-Laminin Antibody (A03522) 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.

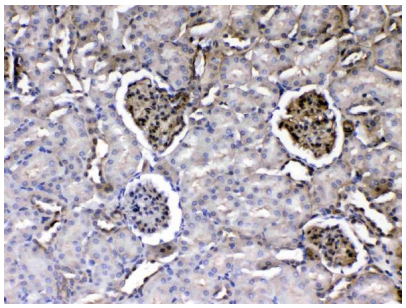

Figure 5. IHC analysis of Laminin using anti-Laminin antibody (A03522).
Laminin was detected in paraffin-embedded section of rat kidney tissue . Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-Laminin Antibody (A03522) 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.

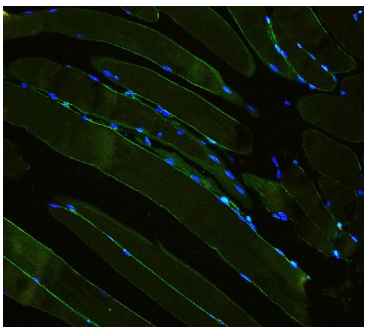

Figure 6. IF analysis of Laminin using anti-Laminin antibody (A03522).
Laminin was detected in a paraffin-embedded section of mouse skeletal muscle tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 5 ug/mL rabbit anti-Laminin Antibody (A03522) overnight at 4°C. DyLight®488 Conjugated Goat Anti-Rabbit IgG (BA1127) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

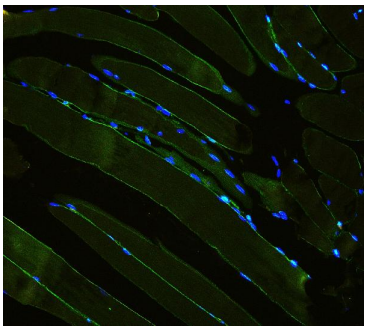

Figure 7. IF analysis of Laminin using anti-Laminin antibody (A03522).
Laminin was detected in a paraffin-embedded section of mouse skeletal muscle tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 5 ug/mL rabbit anti-Laminin Antibody (A03522) overnight at 4°C. DyLight®488 Conjugated Goat Anti-Rabbit IgG (BA1127) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37°C. The section was

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counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

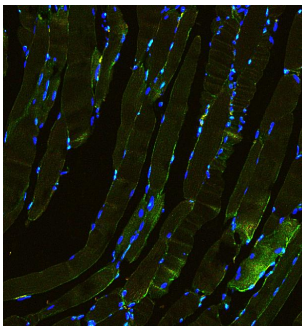

Figure 8. IF analysis of Laminin using anti-Laminin antibody (A03522).
Laminin was detected in a paraffin-embedded section of rat skeletal muscle tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 5 ug/mL rabbit anti-Laminin Antibody (A03522) overnight at 4°C. DyLight®488 Conjugated Goat Anti-Rabbit IgG (BA1127) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

27 Publications Citing This Product

1. PubMed ID: 10.3748/wjg.v16.i6.749, Effects of in vitro cultivated Calculus Bovis compound on pulmonary lesions in rabbits with schistosomiasis

2. PubMed ID: PMID:25197353, Effects of transforming growth factor-beta2 on myocilin expression and secretion in human primary cultured trabecular meshwork cells

3. PubMed ID: 10.3233/BME-151541, Observation of vascularization and protein after implanting porous silk fibroin films in rat

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