Product datasheet

Anti-LAMC1/LAMC2/LAMC3 Antibody

Catalog Number: *A03522*

BOSTER
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator,
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Basic Information

Product Name	Anti-LAMC1/LAMC2/LAMC3 Antibody
Gene Name	Lamc1/Lamc2/Lamc3
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC, IF
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
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.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	220-250 kDa
Dilution Ratios	Western blot (WB): 1:1000-5000 Immunohistochemistry (IHC): 1:50-400 Immunofluorescence (IF): 1:50-400 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt，-20℃ as supplied.

Background Information

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 α-chain, a β-chain, and a γ-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.

Reference

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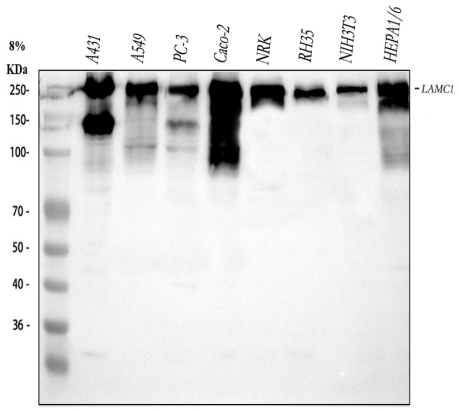
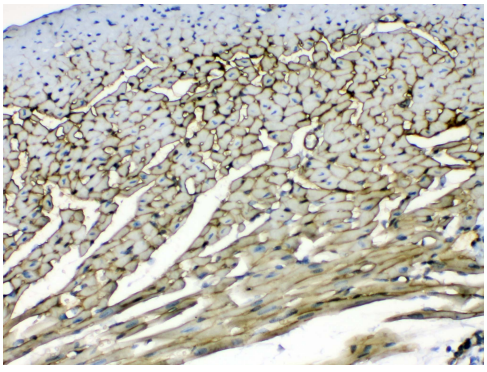
Anti-LAMC1/LAMC2/LAMC3 Antibody被引用在36文献中。

Selected Validation Data



Western blot analysis of LAMC1/LAMC2/LAMC3 using anti-LAMC1/LAMC2/LAMC3 antibody (A03522). 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 RH-35 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 membrane. Then the membrane was incubated with rabbit anti-LAMC1/LAMC2/LAMC3 antigen affinity purified polyclonal antibody (A03522) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for LAMC1/LAMC2/LAMC3 at approximately 150, 220-250 kDa. The expected band size for LAMC1/LAMC2/LAMC3 is at 177 kDa.



IHC analysis of LAMC1/LAMC2/LAMC3 using anti-LAMC1/LAMC2/LAMC3 antibody (A03522).
LAMC1/LAMC2/LAMC3 was detected in a paraffin-embedded section of mouse heart tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-LAMC1/LAMC2/LAMC3 Antibody (A03522) at a dilution of 1:200 and developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.

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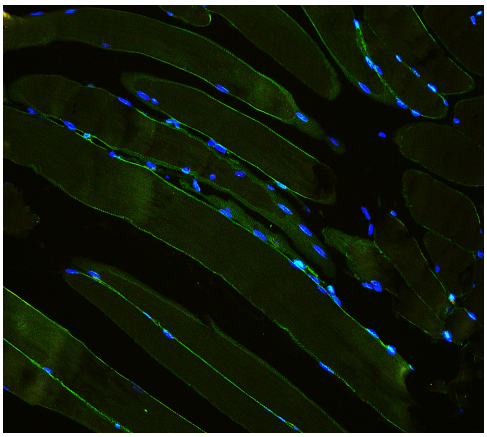

IF analysis using anti- Laminin antibody (A03522). detected in paraffin-embedded section of mouse skeletal muscle tissue. The tissue section were stained using the Dylight488-conjugated Anti-rabbit IgG Secondary Antibody (green)(Catalog#BA1127) and counterstained with DAPI (blue).