

## Basic Information

Product Name	Anti-LAMC1/LAMC2/LAMC3 Antibody	
Gene Name	LAMC1/LAMC2/LAMC3	
Source	Rabbit	
Clonality	Polyclonal	
Isotype	IgG	
Species Reactivity	human	
Tested Application	WB, IHC	
Contents	500 ug/ml antibody with PBS, 0.02% NaN <sub>3</sub> , 1 mg/ml BSA and 50% glycerol.	
Immunogen	Peptide mixture of laminin gamma1,2,3(DLNKLNEIEGTLNKAKDEMK; MSELEERARQQRGHLHLLT; LQRKLSLLEQESQQQELQIQ). 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): 1:500-2000 Immunohistochemistry (IHC): 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°C as supplied.

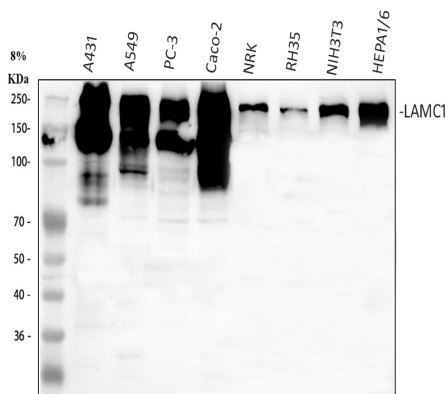
## Background Information

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  $\alpha$ -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.

## Reference

Anti-LAMC1/LAMC2/LAMC3 Antibody被引用在4文献中。

## Selected Validation Data



Western blot analysis of Laminin using anti-Laminin antibody (PB9142).

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,

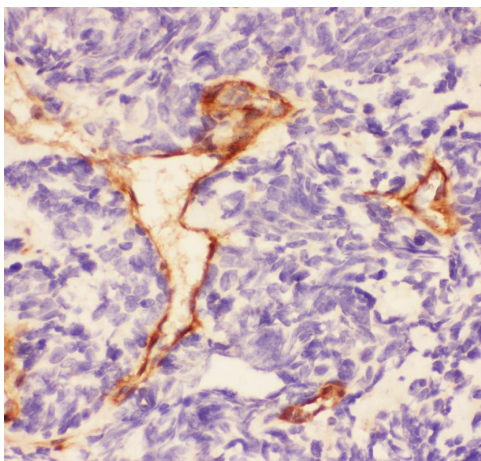
Lane 5: rat NRK whole cell lysates,

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-Laminin antigen affinity purified polyclonal antibody (PB9142) 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 Laminin at approximately 220-250 kDa. The expected band size for Laminin is at 178/131/171 kDa.



IHC analysis of LAMC1/LAMC2/LAMC3 using anti-LAMC1/LAMC2/LAMC3 antibody (PB9142).

LAMC1/LAMC2/LAMC3 was detected in a paraffin-embedded section of human lung cancer tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-LAMC1/LAMC2/LAMC3 Antibody (PB9142) at a dilution of 1:200 and developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.