Anti-Laminin beta 1 Antibody [JM099-03] - BSA and Azide free

HA751844

Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB, IHC-P, FC
Molecular Wt:	Predicted band size: 198 kDa
Clone number:	JM099-03

Description: Laminins, a family of extracellular matrix glycoproteins, are the major noncollagenous constituent of basement membranes. They have been implicated in a wide variety of biological processes including cell adhesion, differentiation, migration, signaling, neurite outgrowth and metastasis. Laminins are composed of 3 non identical chains: laminin alpha, beta and gamma (formerly A, B1, and B2, respectively) and they form a cruciform structure consisting of 3 short arms, each formed by a different chain, and a long arm composed of all 3 chains. Each laminin chain is a multidomain protein encoded by a distinct gene. Several isoforms of each chain have been described. Different alpha, beta and gamma chain isomers combine to give rise to different heterotrimeric laminin isoforms, which are designated by Arabic numerals in the order of their discovery, i.e. alpha1beta1gamma1 heterotrimer is laminin 1.

Immunogen: Synthetic peptide within Human Laminin beta 1 aa 1,721-1,769 / 1,786.

Positive control: SW480 cell lysate, NIH/3T3 cell lysate, MEF cell lysate, C6 cell lysate, Mouse stomach tissue lysate, Rat stomach tissue lysate, HepG2 cell lysate, Rat heart tissue lysate, human kidney tissue, mouse kidney tissue, rat kidney tissue.

Subcellular location: Secreted.

Database links: SwissProt: P07942 Human | P02469 Mouse
Entrez Gene: 298941 Rat

Recommended Dilutions:

WB	1:2,000-1:5,000
IHC-P	1:1,000

Storage Buffer: 1*PBS (pH7.4).

Storage Instruction: Store at +4℃ after thawing. Aliquot store at -20℃. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

Images

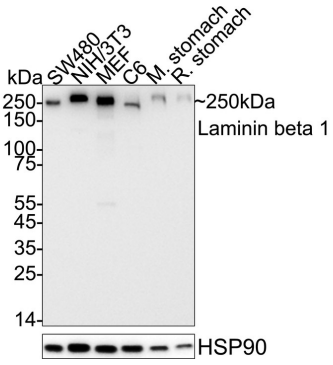

Fig1: Western blot analysis of Laminin beta 1 on different lysates with Rabbit anti-Laminin beta 1 antibody (HA751844) at 1/5,000 dilution.

Lane 1: SW480 cell lysate
Lane 2: NIH/3T3 cell lysate
Lane 3: MEF cell lysate
Lane 4: C6 cell lysate
Lane 5: Mouse stomach tissue lysate
Lane 6: Rat stomach tissue lysate

Lysates/proteins at 20 µg/Lane.

Predicted band size: 198 kDa
Observed band size: 250 kDa

Exposure time: 20 seconds; ECL: K1801;
4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA751844) at 1/5,000 dilution was used in primary antibody dilution (K1803) at 4℃ overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

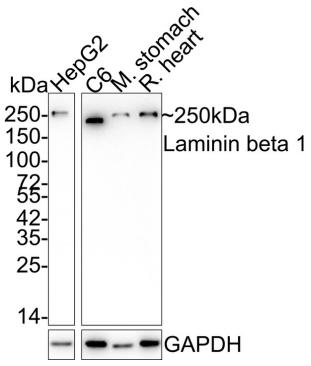

Fig2: Western blot analysis of Laminin beta 1 on different lysates with Rabbit anti-Laminin beta 1 antibody (HA751844) at 1/2,000 dilution.

Lane 1: HepG2 cell lysate (15 µg/Lane)
Lane 2: C6 cell lysate (15 µg/Lane)
Lane 3: Mouse stomach tissue lysate (20 µg/Lane)
Lane 4: Rat heart tissue lysate (20 µg/Lane)

Predicted band size: 198 kDa
Observed band size: 250 kDa

Exposure time: 3 minutes 10 seconds;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA751844) at 1/2,000 dilution was used in 5% NFDM/TBST at 4℃ overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

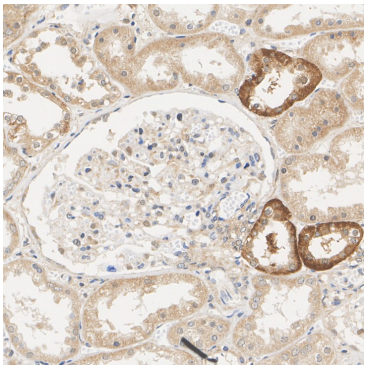

Fig3: Immunohistochemical analysis of paraffin-embedded human kidney tissue with Rabbit anti-Laminin beta 1 antibody (HA751844) at 1/1,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH_2O and PBS, and then probed with the primary antibody (HA751844) at 1/1,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

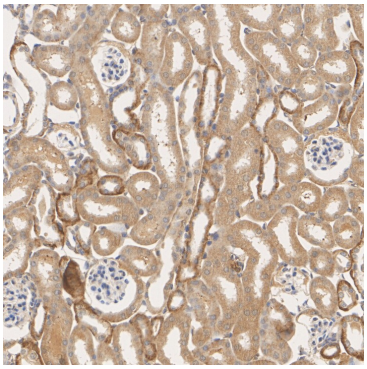

Fig4: Immunohistochemical analysis of paraffin-embedded mouse kidney tissue with Rabbit anti-Laminin beta 1 antibody (HA751844) at 1/1,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH_2O and PBS, and then probed with the primary antibody (HA751844) at 1/1,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

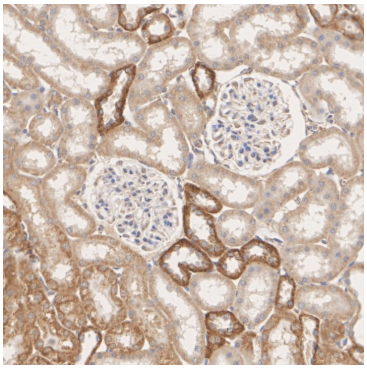

Fig5: Immunohistochemical analysis of paraffin-embedded rat kidney tissue with Rabbit anti-Laminin beta 1 antibody (HA751844) at 1/1,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH_2O and PBS, and then probed with the primary antibody (HA751844) at 1/1,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

Background References

1. Yuan X et al. Histone acetylation is involved in TCDD-induced cleft palate formation in fetal mice. Mol Med Rep 14:1139-45 (2016).
2. Little GH et al. Genome-wide Runx2 occupancy in prostate cancer cells suggests a role in regulating secretion. Nucleic Acids Res 40:3538-47 (2012).