

Anti-Laminin subunit beta-1 Polyclonal Antibody

Product Details

| | |
|-------------------|--|
| Ig Type: | IgG |
| Reactivity: | Human,Mouse,Rat (predicted:Cow) |
| Molecular Weight: | Theoretical: 198 kDa. Actual: 240 kDa. |
| Purification: | Protein A purified |

Applications

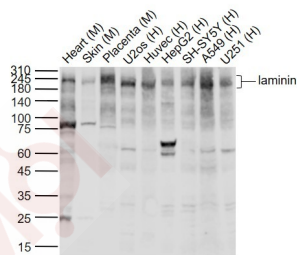
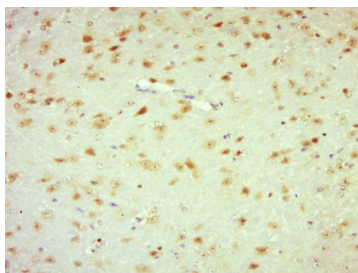
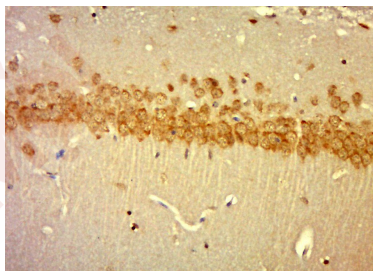
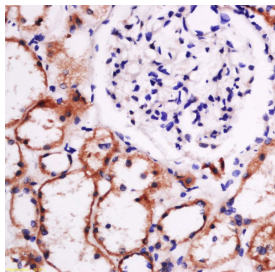
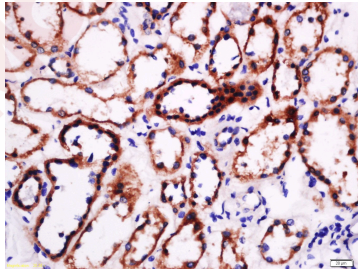
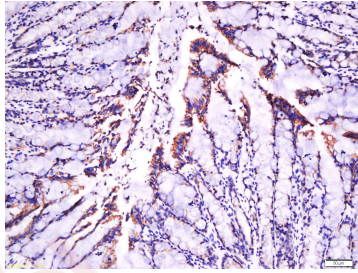
Verified Activity:

1. Tissue/cell: rat intestine tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Incubation: Anti-laminin Polyclonal Antibody, Unconjugated (TMAB-01044) 1:500, overnight at 4°C, followed by conjugation to the secondary antibody and DAb staining.
2. Tissue/cell: human kidney tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Incubation: Anti-laminin Polyclonal Antibody, Unconjugated (TMAB-01044) 1:500, overnight at 4°C, followed by conjugation to the secondary antibody and DAb staining.
3. Paraformaldehyde-fixed, paraffin embedded (human kidney tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (laminin) Polyclonal Antibody, Unconjugated (TMAB-01044) at 1:400 overnight at 4°C, followed by a conjugated secondary for 20 min and DAB staining.
4. Paraformaldehyde-fixed, paraffin embedded (mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (laminin) Polyclonal Antibody, Unconjugated (TMAB-01044) at 1:400 overnight at 4°C, followed by a conjugated secondary for 20 min and DAB staining.
5. Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (laminin) Polyclonal Antibody, Unconjugated (TMAB-01044) at 1:500 overnight at 4°C, followed by a conjugated secondary for 20 min and DAB staining.
6. Sample:
 - Lane 1: Heart (Mouse) Lysate at 40 µg
 - Lane 2: Skin (Mouse) Lysate at 40 µg
 - Lane 3: Placenta (Mouse) Lysate at 40 µg
 - Lane 4: U2Os (Human) Cell Lysate at 30 µg
 - Lane 5: Huvec (Human) Cell Lysate at 30 µg
 - Lane 6: HepG2 (Human) Cell Lysate at 30 µg
 - Lane 7: SH-SY5Y (Human) Cell Lysate at 30 µg
 - Lane 8: A549 (Human) Cell Lysate at 30 µg
 - Lane 9: U251 (Human) Cell Lysate at 30 µgPrimary: Anti-laminin (TMAB-01044) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 220-240 kDa

Observed band size: 240 kDa



Application: ELISA,IF,IHC-Fr,IHC-P,WB

Recommended WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500; ELISA: 1:5000-10000

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: KLH conjugated synthetic peptide: human Laminin subunit beta-1

Antigen Species: Human

Gene ID: 3912

Synonyms: Laminin-2 subunit beta;Laminin-6 subunit beta;Laminin subunit beta 1;Laminin-1 subunit beta;LAMB1;Laminin-12 subunit beta;Laminin-8 subunit beta;Laminin B1 chain;Laminin-10 subunit beta

Research Background

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. The biological functions of the different chains and trimer molecules are largely unknown, but some of the chains have been shown to differ with respect to their tissue distribution, presumably reflecting diverse functions in vivo. This gene encodes the beta chain isoform laminin, beta 1. The beta 1 chain has 7 structurally distinct domains which it shares with other beta chain isomers. The C-terminal helical region containing domains I and II are separated by domain alpha, domains III and V contain several EGF-like repeats, and domains IV and VI have a globular conformation. Laminin, beta 1 is expressed in most tissues that produce basement membranes, and is one of the 3 chains constituting laminin 1, the first laminin isolated from Engelbreth-Holm-Swarm (EHS) tumor. A sequence in the beta 1 chain that is involved in cell attachment, chemotaxis, and binding to the laminin receptor was identified and shown to have the capacity to inhibit metastasis. [provided by RefSeq, Aug 2011]

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