bs-0821R **[Primary Antibody]**

Laminin subunit beta-1 Rabbit pAb

www.bioss.com.cn
sales@bioss.com.cn
techsupport@bioss.com.cn
400-901-9800

DATASHEET

Host: Rabbit
Isotype: IgG
Clonality: Polyclonal
GeneID: 3912
Target: Laminin subunit beta-1
Immunogen: KLH conjugated synthetic peptide derived from human Laminin subunit beta-1: 901-1000/1786.
Purification: affinity purified by Protein A
Concentration: 1mg/ml
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

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]

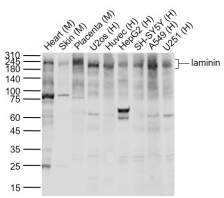
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
ELISA (1:5000-10000)

Reactivity: Human, Mouse, Rat (predicted: Cow)

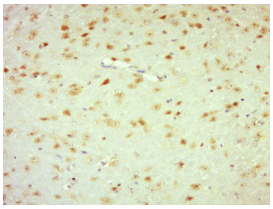
Predicted MW.: 198 kDa

Subcellular Location: Secreted ,Extracellular matrix ,Cell membrane

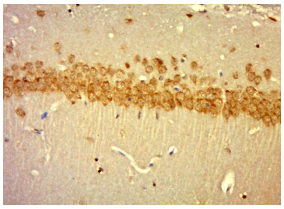
VALIDATION IMAGES



Sample: Lane 1: Heart (Mouse) Lysate at 40 ug Lane 2: Skin (Mouse) Lysate at 40 ug Lane 3: Placenta (Mouse) Lysate at 40 ug Lane 4: U2os (Human) Cell Lysate at 30 ug Lane 5: Huvec (Human) Cell Lysate at 30 ug Lane 6: HepG2 (Human) Cell Lysate at 30 ug Lane 7: SH-SY5Y (Human) Cell Lysate at 30 ug Lane 8: A549



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (laminin) Polyclonal Antibody,



Paraformaldehyde-fixed, paraffin embedded (mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (laminin) Polyclonal Antibody,

(Human) Cell Lysate at 30 ug Lane 9: U251 (Human) Cell Lysate at 30 ug Primary: Anti-laminin (bs-0821R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 220-240 kD Observed band size: 240 kD

Unconjugated (bs-0821R) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.

Unconjugated (bs-0821R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.

SELECTED CITATIONS

- **[IF=11.092]** Guobao Chen. et al. In Situ Regulation and Mechanisms of 3D Matrix Stiffness on the Activation and Reversion of Hepatic Stellate Cells. ADV HEALTHC MATER. 2022 Dec;:2202560 IF ;Rat. 36519640
- **[IF=8.32]** Gong, Tao, et al. "A Dynamically Tunable, Bioinspired Micropatterned Surface Regulates Vascular Endothelial and Smooth Muscle Cells Growth at Vascularization." Small (2016). IHC ;="Rabbit". 27595865
- **[IF=6.4]** Chen, Hongqian. et al.Atlas of Fshr expression from novel reporter mice.ELIFE.2025 Jan 8:13:RP93413. IF ;Mouse. 39773308
- **[IF=5.959]** Wang Y et al. SPARCL1 promotes C2C12 cell differentiation via BMP7-mediated BMP/TGF-β cell signaling pathway. Cell Death Dis. 2019 Nov 7;10(11):852. IF ;Mouse. 31699966
- **[IF=5.116]** Siwen Zhang. et al. Concentrated exosomes from menstrual blood-derived stromal cells improves ovarian activity in a rat model of premature ovarian insufficiency. Stem Cell Res Ther. 2021 Dec;12(1):1-16 IF,IHC ;Rat. 33712079