bs-6713R **[Primary Antibody]**

Laminin 5 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 3909 **SWISS:** Q16787

Target: Laminin 5

Immunogen: KLH conjugated synthetic peptide derived from human LAMA3: 2701-2900/3333.

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 are basement membrane components thought to mediate the attachment, migration and organization of cells into tissues during embryonic development by interacting with other extracellular matrix components. Laminin 5 is an isoform composed of three distinct subunits, alpha 3, beta 3 and gamma 2, which are bound to each other in a cross-shaped molecule by disulphide bonds. It is a complex glycoprotein thought to be involved in cell adhesion via integrin alpha-3/beta-1 in focal adhesion and integrin alpha-6/beta-4 in hemidesmosomes. It is also involved in signal transduction via tyrosine phosphorylation of pp125-FAK and p80, and differentiation of keratinocytes.
The laminin alpha 3 subunit is also thought to be a component of laminin 6 and laminin 7

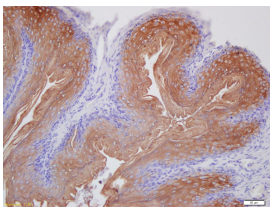
Applications: **IHC-P** (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

Reactivity: Mouse (predicted: Human, Rat, Rabbit, Pig, Cow, Dog, Horse)

Predicted MW.: 367 kDa

Subcellular Location: Secreted ,Extracellular matrix ,Cell membrane

VALIDATION IMAGES



Tissue/cell: mouse stomach wall; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-Laminin 5 Polyclonal Antibody, Unconjugated(bs-6713R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

SELECTED CITATIONS

- **[IF=12.063]** Aiko Inoue. et al. Young bone marrow transplantation prevents aging-related muscle atrophy in a senescence-accelerated mouse prone 10 model. J CACHEXIA SARCOPENI. 2022 Sep;: IF ;Mouse. 36058630
- **[IF=10.02]** Jiang, Haiying, et al. "Cathepsin K-mediated notch1 activation contributes to neovascularization in response to hypoxia." Nature Communications 5 (2014). WB ;="Rat". 24894568

- **[IF=9.7]** Inoue et al. Exercise restores muscle stem cell mobilization, regenerative capacity and muscle metabolic alterations via adiponectin/AdipoR1 activation in SAMP10 mice. (2017) J.Cachexia.Sarcopenia.Muscle. 8:370-385 IF ;Mouse. 27897419
- **[IF=8.079]** Piao, Limei. et al. Human umbilical cord-derived mesenchymal stromal cells ameliorate aging-associated skeletal muscle atrophy and dysfunction by modulating apoptosis and mitochondrial damage in SAMP10 mice. STEM CELL RES THER. 2022 Dec;13(1):1-17 IF ;Mouse. 35659361
- **[IF=7.7]** Li Wang. et al.Phase-transited lysozyme coating on zirconia abutments for enhancing soft tissue seal and antibacterial activity..International Journal of Biological Macromolecules.2025 Mar 12;307(Pt 3):142016. IF ;Human. 40086550