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[Marker Primary Antibody]

Rabbit Anti-Laminin B2 gamma 1/AF647 Conjugated antibody

Catalog Number: SL5122R-AF647

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-Laminin B2 gamma 1/AF647
Immunogen:	KLH conjugated synthetic peptide derived from human Laminin B2 gamma 1
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse,Rat(predicted:Human,Cow)
Background:	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. The gamma 1 chain, formerly thought to be a beta chain, contains structural domains similar to beta chains, however, lacks the short alpha region separating domains I and II. The structural organization of this gene also suggested that it had diverged considerably from the beta chain genes. **Function:** Binding to cells via a high affinity receptor, laminin is thought to mediate the attachment, migration and organization of cells into tissues during embryonic development by interacting with other extracellular matrix

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	components. **Subunit:** Laminin is a complex glycoprotein, consisting of three different polypeptide chains (alpha, beta, gamma), which are bound to each other by disulfide bonds into a cross-shaped molecule comprising one long and three short arms with globules at each end. Gamma-1 is a subunit of laminin-1 (laminin-111 or EHS laminin), laminin-2 (laminin-211 or merosin), laminin-3 (laminin-121 or S-laminin), laminin-4 (laminin-221 or S-merosin), laminin-6 (laminin-311 or K-laminin), laminin-7 (laminin-321 or KS-laminin), laminin-8 (laminin-411), laminin-9 (laminin-421), laminin-10 (laminin-511) and laminin-11 (laminin-521). **Subcellular Location:** Secreted, extracellular space, extracellular matrix, basement membrane. **Tissue Specificity:** Found in the basement membranes. **Similarity:** Contains 11 laminin EGF-like domains. Contains 1 laminin IV type A domain. Contains 1 laminin N-terminal domain. **Database links:** **Entrez Gene:** 3915 Human **Entrez Gene:** 226519 Mouse Omim: 150290 Human **SwissProt:** P11047 Human **SwissProt:** Q5VYE7 Human **SwissProt:** Q6NVY8 Human **SwissProt:** P02468 Mouse **Unigene:** 609663 Human **Unigene:** 1249 Mouse Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.