

Laminin β -1/ γ -1 (612C10): sc-47766

BACKGROUND

Laminins are essential and abundant structural non-collagenous glycoproteins localizing to basement membranes. Basement membranes (cell-associated extracellular matrices (ECMs)) are polymers of Laminins with stabilizing Type IV Collagen networks, Nidogen and several proteoglycans. Basement membranes are found under epithelial layers, around the endothelium of blood vessels, and surrounding muscle, peripheral nerve and fat cells. Formation of basement membranes influences cell proliferation, phenotype, migration, gene expression and tissue architecture. Each Laminin is a heterotrimer of α , β and γ chain subunits that undergoes cell-secretion and incorporation into the ECM. Laminins can self-assemble, bind to other matrix macromolecules and have unique and shared cell interactions mediated by integrins, dystroglycan and cognate Laminin receptors. The human Laminin β -1 gene maps to chromosome 7q22; the human Laminin γ -1 gene maps to chromosome 1q31. Both are ubiquitously expressed in tissues that produce basement membranes.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: LAMB1 (human) mapping to 7q31.1, LAMC1 (human) mapping to 1q25.3.

SOURCE

Laminin β -1/ γ -1 (612C10) is a mouse monoclonal antibody raised against purified placental Laminin β -1/ γ -1 complex of human origin.

PRODUCT

Each vial contains 200 μ g IgG₁ in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Laminin β -1/ γ -1 (612C10) is recommended for detection of Laminin β -1/ γ -1 complex of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)].

Molecular Weight of Laminin β -1/ γ -1: 150 kDa.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.