**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 secretion and incorporation into the ECM. Laminins can self-assemble and 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 1q31.1 and is ubiquitously expressed in tissues that produce basement membranes.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: LAMB1 (human) mapping to 7q31.1; Lamb1 (mouse) mapping to 12 A2.

**SOURCE**

Laminin β-1 (A-1) is a mouse monoclonal antibody raised against amino acids 1487-1786 mapping at the C-terminus of Laminin β-1 of human origin.

**PRODUCT**

Each vial contains 200 µg IgG κ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

**APPLICATIONS**

Laminin β-1 (A-1) is recommended for detection of Laminin β-1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:200:1:2,000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500).

Suitable for use as control antibody for Laminin β-1 siRNA (h): sc-29387, Laminin β-1 siRNA (m): sc-35781, Laminin β-1 shRNA Plasmid (h): sc-29387-SH, Laminin β-1 shRNA Plasmid (m): sc-35781-SH, Laminin β-1 shRNA (h) Lentiviral Particles: sc-29387-V and Laminin β-1 shRNA (m) Lentiviral Particles: sc-35781-V.

Molecular Weight of Laminin β-1: 220 kDa.

Positive Controls: JAR cell lysate: sc-2276, A-431 whole cell lysate: sc-2201 or Caco-2 cell lysate: sc-2262.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:


**DATA**

![Immunofluorescence staining of normal mouse eye frozen section showing basement membrane and trabecular meshwork staining.](image)

**SELECT PRODUCT CITATIONS**


**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.