

Laminin antibody

Sheep polyclonal to Laminin

Catalog Number **GTX29009**

Synonyms | LAMA laminin alpha 1 |

Background Laminin, the most abundant structural and biologically active component in basement membranes, is a complex extracellular glycoprotein with an approximate molecular weight of 900 kD. It plays an important role in many aspects of the cell biology. Laminin is composed of one A chain (400 kD) one B1 chain (215 kD) and one B2 chain (205 kD) all held together by disulfide bonds. The molecule has a cross-like form with globular units near the ends of each chain, the sites where it is bound to Collagen IV, heparan sulfate, proteoglycan as well as to the surface of epithelial cells. Laminins from various species have common antigenic determinants. Laminin is only found in significant quantities in basement membranes, the thin extracellular matrices that surround epithelial tissue, nerve, fat cells and smooth, striated and cardiac muscle. It has been found to modulate cell differentiation, cell shaping and also cell movement because it appears to be an important cell substrate-adhesion protein. Variations in the expression of this protein have been observed in embryogenesis, organogenesis, post traumatic healing and cancer. The greatest interest in laminin has been provoked by the discovery of its ability to promote neurite regeneration.

Host Sheep

Clonality Polyclonal

Subclass IgG

Immunogen Human Laminin purified from human placenta which likely contained a mixture of multiple laminin isoforms. The main reactivity seems to be with laminin beta 1 and gamma 1 chains.

Antigen Species Human

Cross Reactivity Human - Not yet tested in other species.

Applications Dot blot, Western blot. The usefulness of this product in other applications has not been determined.

Application Note For immunoblotting: Antigen: 100ng Laminin immobilised on nitrocellulose Primary Antibody: 1/1000 Secondary Antibody: 1/1000 Donkey-anti-sheep/goat immunoglobulins-peroxidase Optimal dilutions should be determined by the individual laboratory Suitability for use in immunohistochemical procedures and enzyme-linked immunosorbent assays has not been assessed but use in such assays should not necessarily be excluded.

Target Laminin

Cellular Localization Extracellular. Found in the basement membranes.

Purification IgG fraction

Storage Buffer Glycine buffered saline pH7.4, 0.1% Sodium Azide, 0.1% EACA, 0.01% Benzamidine, 1mM EDTA

Storage Instruction Keep as concentrated solution, aliquot and store at 4°C.

