



Anti-LAMININ γ 1CHAIN polyclonal antibody (DPAB3211)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Polyclonal Antibody to LAMININ γ 1CHAIN
Specificity	Mouse Laminin 1g chain
Immunogen	Mouse Laminin 1g chain
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Mouse
Conjugate	Unconjugated
Format	Serum
Concentration	20 μ l / 100 μ l (lyophilized); resuspend in aqua bidest
Preservative	None
Storage	2-8°C (lyophilized); - 20°C (dissolved); Repeated thawing and freezing must be avoided

BACKGROUND

Introduction	Laminins are major proteins in the basal lamina (one of the layers of the basement membrane), a protein network foundation for most cells and organs. The laminins are an important and biologically active part of the basal lamina, influencing cell differentiation, migration, adhesion as well as phenotype and survival. Laminins are trimeric proteins that contain an α -chain, a β -chain, and a γ -chain, found in five, four, and three genetic variants, respectively. The laminin
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molecules are named according to their chain composition. Thus, laminin-511 contains $\alpha 5$, $\beta 1$, and $\gamma 1$ chains. Fourteen other chain combinations have been identified in vivo. The trimeric proteins intersect to form a cross-like structure that can bind to other cell membrane and extracellular matrix molecules. The three shorter arms are particularly good at binding to other laminin molecules, which allows them to form sheets. The long arm is capable of binding to cells, which helps anchor organized tissue cells to the membrane. The laminins are a family of glycoproteins that are an integral part of the structural scaffolding in almost every tissue of an organism. They are secreted and incorporated into cell-associated extracellular matrices. Laminin is vital for the maintenance and survival of tissues. Defective laminins can cause muscles to form improperly, leading to a form of muscular dystrophy, lethal skin blistering disease (junctional epidermolysis bullosa) and defects of the kidney filter (nephrotic syndrome).

Keywords

LAMA 1; LAMA; LAMA1; LAMB1; Lamc3; LAMC3_HUMAN; Laminin A chain; Laminin alpha 1; Laminin alpha 1 chain; Laminin B1 chain; Laminin subunit beta 1; Laminin subunit gamma-3
Laminin-12 subunit gamma; Laminin-14 subunit gamma
Laminin-15 subunit gamma

GENE INFORMATION

Entrez Gene ID

[3915](#)

UniProt ID

[P11047](#)
