



Human Laminin-5 (DAG282)

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

PRODUCT INFORMATION

Product Overview	HumanLaminin-5, Recombinant. Molecular weight 450kDa. Does not contain a fusionpartner.
Antigen Description	Laminin,the most abundant structural and biologically active component in basementmembranes, is a complex extracellular glycoprotein with an approximatemolecular weight of 900 kDa. It plays an important role in many aspects ofthe cell biology. Laminin is composed of one A chain (400 kDa) one B1 chain(215 kDa) and one B2 chain (205 kDa) all held together by disulfide bonds.The molecule has a cross like form with globular units near the ends of eachchain, the sites where it is bound to Collagen IV, heparan sulfate,proteoglycan as well as to the surface of epithelial cells. Laminins fromvarious species have common antigenic determinants.
Species	Human
Conjugate	Unconjugated
Applications	Specificmethodologies have not been tested using this product.
Format	Purified, Liquid
Concentration	Lotspecific
Buffer	30mMTris-HCl, pH 8.0 containing 0.0025% Brij 35, 0.05% CHAPS and 0.05% TFA
Preservative	None
Storage	2-8°C short term, -20°C long term

BACKGROUND

Introduction	This gene encodes one of the vertebrate laminin alpha chains. 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. Each laminin chain is a multidomain protein encoded by a distinct gene. The protein encoded by this gene is the alpha-5 subunit of laminin-10 (laminin-511), laminin-11 (laminin-521) and laminin-15 (laminin-523).

Keywords

LAMA5; laminin, alpha 5; laminin subunit alpha-5; laminin alpha-5 chain; laminin-10 subunit alpha; laminin-11 subunit alpha; laminin-15 subunit alpha;
