DNAxPAb | Hard-to-Find Antibody

LAMC1 DNAxPab

Catalog # H00003915-W01P Size 200 ug

Specification

Product Description	Rabbit polyclonal antibody raised against a full-length human LAMC1 DNA using DNAx™ Immune te chnology.
Technology	DNAx™ Immune
Immunogen	Full-length human DNA
Sequence	MNKRRTSHRIWKNKLPEYMRRPKGPVTKLWRSMPAWLS
Host	Rabbit
Reactivity	Human
Purification	Protein A
Quality Control Testing	Antibody reactive against mammalian transfected lysate.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Transfected lysate)

  Protocol Download

- Immunofluorescence (Transfected cell)
- Flow Cytometry (Transfected cell)

Gene Info — LAMC1

Entrez GeneID	3915
GeneBank Accession#	BC015586
Protein Accession#	AAH15586
Gene Name	LAMC1
Gene Alias	LAMB2, MGC87297
Gene Description	laminin, gamma 1 (formerly LAMB2)
Omim ID	150290 176780
Gene Ontology	Hyperlink
Gene Summary	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 inc luding cell adhesion, differentiation, migration, signaling, neurite outgrowth and metastasis. Lamin ins 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 prot ein encoded by a distinct gene. Several isoforms of each chain have been described. Different al pha, beta and gamma chain isomers combine to give rise to different heterotrimeric laminin isofor ms which are designated by Arabic numerals in the order of their discovery, i.e. alpha1beta1gam ma1 heterotrimer is laminin 1. The biological functions of the different chains and trimer molecules are largely unknown, but some of the chains have been shown to differ with respect to their tissue distribution, presumably reflecting diverse functions in vivo. This gene encodes the gamma chain i soform laminin, gamma 1. The gamma 1 chain, formerly thought to be a beta chain, contains struc tural domains similar to beta chains, however, lacks the short alpha region separating domains I a nd II. The structural organization of this gene also suggested that it had diverged considerably fro m the beta chain genes. Embryos of transgenic mice in which both alleles of the gamma 1 chain g ene were inactivated by homologous recombination, lacked basement membranes, indicating tha t laminin, gamma 1 chain is necessary for laminin heterotrimer assembly. It has been inferred by a nalogy with the strikingly similar 3' UTR sequence in mouse laminin gamma 1 cDNA, that multiple polyadenylation sites are utilized in human to generate the 2 different sized mRNAs (5.5 and 7.5 k b) seen on Northern analysis. [provided by RefSeq
Other Designations	OTTHUMP00000033450|formerly LAMB2|laminin, gamma 1

Pathway

- ECM-receptor interaction
- Focal adhesion

- Pathways in cancer
- Prion diseases
- Small cell lung cancer

Disease

- Genetic Predisposition to Disease
- Macular Degeneration
- Ovarian Neoplasms