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Laminin gamma 1 Protein (Myc-DYKDDDDK Tag)



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Overview		
Quantity:	20 μg	
Target:	Laminin gamma 1 (LAMC1)	
Origin:	Human	
Source:	HEK-293 Cells	
Protein Type:	Recombinant	
Purification tag / Conjugate:	This Laminin gamma 1 protein is labelled with Myc-DYKDDDDK Tag.	
Application:	Antibody Production (AbP), Standard (STD)	
Product Details		
Characteristics:	 Recombinant human Laminin gamma 1 protein expressed in HEK293 cells. Produced with end-sequenced ORF clone 	
Purity:	> 80 % as determined by SDS-PAGE and Coomassie blue staining	
Target Details		
Target:	Laminin gamma 1 (LAMC1)	
Alternative Name:	Laminin gamma 1 (LAMC1 Products)	
Background:	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, composed of 3 non identical chains: laminin alpha, beta and gamma	
	(formerly A, B1, and B2, respectively), have 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. Several isoforms of each chain have been described. Different alpha, beta and gamma chain isomers combine to give rise to different heterotrimeric laminin isoforms which are designated by Arabic numerals in the order of their discovery, i.e. alpha1beta1gamma1 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 isoform laminin, gamma 1. The gamma 1 chain, formerly thought to be a beta chain, contains structural domains similar to beta chains, however, lacks the short alpha region separating domains I and II. The structural organization of this gene also suggested that it had diverged considerably from the beta chain genes. Embryos of transgenic mice in which both alleles of the gamma 1 chain gene were inactivated by homologous recombination, lacked basement membranes, indicating that laminin, gamma 1 chain is necessary for laminin heterotrimer assembly. It has been inferred by analogy 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 kb) seen on Northern analysis.

Molecular Weight:	174.2 kDa		
NCBI Accession:	NP_002284		

Application Details

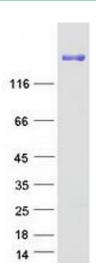
Application Notes:	Recombinant human proteins can be used for:
	Native antigens for optimized antibody production
	Positive controls in ELISA and other antibody assays
Comment:	The tag is located at the C-terminal.
Restrictions:	For Research Use only

Handling

Concentration:	50 μg/mL
Buffer:	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10 % glycerol.
Storage:	-80 °C
Storage Comment:	Store at -80°C. Thaw on ice, aliquot to individual single-use tubes, and then re-freeze

immediately. Only 2-3 freeze thaw cycles are recommended.

Images



Western Blotting

Image 1. Validation with Western Blot