

Product datasheet for PH318516

LAMC2 (NM_018891) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	LAMC2 MS Standard C13 and N15-labeled recombinant protein (NP_061486)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC218516
Predicted MW:	121.6 kDa
Protein Sequence:	>RC218516 protein sequence Red=Cloning site Green=Tags(s)

MPALWLGCCLCFSLLLPAARATSRREVDCNGKSRQCIFDRELHRQTGNGFRCLNCNDNTDGIHCEKCKN
GFYRHRERDRCLPCNCNSKGSLSARCDNSGRCSCKPGVTGARCDRCLPGFHMLMDAGCTQDQRLDLSKCD
CDPAGIAGPCDAGRCVCKPAVTGERCDRCRSGYYNLDGGNPEGCTQCFCYGHASCRSSAEYSVHKITST
FHQDVDGWKAVQRNGSPAKLQWSQRHQDVFSQAQLDPVYFVAPAKFLGNQVQVSYGQSLSFQYRVRDRGGR
HPSAHDVILEGAGLRITAPLMPLGKTLPCGLTKTYTFRLEHPSNNWSPQLSYFEYRRLRLNLTALRIRA
TYGEYSTGYIDNVTLISARPVSGAPAPWVEQCICPVGYKQFCQDCASGYKRDSARLGPFGTCIPCNCQG
GGACDPDTGDCYSGDENPDIECADCPIGFYNDPHDPRSCPCPCCHNGFSCSVMPETEVEVCNCPGVTG
ARCELCADGYFGDPFGEHGPVRPCQPCQCNNDVPSASGNCDRLTGRCLKCIHNTAGIYCDQCKAGYFGD
PLAPNPADKCRACNCNPMGSEPVGCRSDGTCVCKPGFGGPNCEHGFSCPACYNQVKIQMDQFMQQLQRM
EALISKAQGGDGVVPDTELEGRMQAEQALQDILRDAQISEGASRSLGLQLAKVRSQENSYSRLLDDLKM
TVERVRALGSQYQNRVRDTHRLITQMQLSLAESEASLGNINIPASDHVYVGNPFGKSLAQEAATRLAESHVE
SASNMEQLTRETEDYSKQALSLVRKALHEGVGSGSGSPDGAUVVQGLVEKLEKTKSLAQQLTREATQAEIE
ADRSYQHSRLRLDSVSRQLQGVSDQSFQVEEAKRIKQKADSLSSLVTRHMDEFKRTQKNLGNWKEEAQQLL
QNGKSGREKSDQLLSTRANLAKSRAQEALSMGNATFYEVESILKNLREFDLQVDNRKAEAEAMKRLSYIS
QKVSADSDKTQAERALGSAADAQRAKNGAGEALEISSEIEQEIGSLNLEANVTADGALAMEKGLASLK
SEMREVEGELERKELEFDTNMDAVQMVITEAQKVDTRAKNAGVTIQDTLNTLDGLLHLMGM

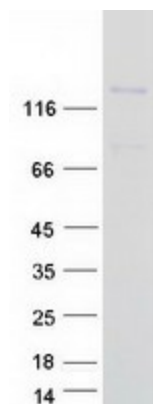
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3



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Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_061486
RefSeq Size:	4522
RefSeq ORF:	3333
Synonyms:	B2T; BM600; CSF; EBR2; EBR2A; LAMB2T; LAMNB2
Locus ID:	3918
UniProt ID:	Q13753
Cytogenetics:	1q25.3
Summary:	<p>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 2. The gamma 2 chain, formerly thought to be a truncated version of beta chain (B2t), is highly homologous to the gamma 1 chain; however, it lacks domain VI, and domains V, IV and III are shorter. It is expressed in several fetal tissues but differently from gamma 1, and is specifically localized to epithelial cells in skin, lung and kidney. The gamma 2 chain together with alpha 3 and beta 3 chains constitute laminin 5 (earlier known as kalinin), which is an integral part of the anchoring filaments that connect epithelial cells to the underlying basement membrane. The epithelium-specific expression of the gamma 2 chain implied its role as an epithelium attachment molecule, and mutations in this gene have been associated with junctional epidermolysis bullosa, a skin disease characterized by blisters due to disruption of the epidermal-dermal junction. Two transcript variants resulting from alternative splicing of the 3' terminal exon, and encoding different isoforms of gamma 2 chain, have been described. The two variants are differentially expressed in embryonic tissues, however, the biological significance of the two forms is not known. Transcript variants utilizing alternative polyA_signal have also been noted in literature. [provided by RefSeq, Aug 2011]</p>
Protein Families:	Druggable Genome, Secreted Protein
Protein Pathways:	ECM-receptor interaction, Focal adhesion, Pathways in cancer, Small cell lung cancer

Product images:

Coomassie blue staining of purified LAMC2 protein (Cat# [TP318516]). The protein was produced from HEK293T cells transfected with LAMC2 cDNA clone (Cat# [RC218516]) using MegaTran 2.0 (Cat# [TT210002]).