

Product datasheet for PH318146

Laminin (LAMC3) (NM_006059) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	LAMC3 MS Standard C13 and N15-labeled recombinant protein (NP_006050)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC218146
Predicted MW:	171.23 kDa
Protein Sequence:	>RC218146 representing NM_006059 Red=Cloning site Green=Tags(s)

MAAAALLLGLALLAPRAAGMGACYDAGRPQRCLPVFENAAFGRLAQASHTCGSPPEDFCPHVGAAGA
GAHCQRCAADPQRHNASYLTFHFSQDESTWWQSPMAFGVQYPTSVNITLRLGKAYEITYVRLKFHTS
RPESFAIYKRSRADGPWEPYQFYASASCQKTYGRPEGQYLRPGEDERVAFCSEFSDISPLSGGNVAFSTL
EGRPSAYNFEESPLQEWTSTELLISLDRLNTFGDDIFKDPKVLQSYYYAVSDFSVGGRCCKNGHASEC
GPDVAGQLACRCQHNTTGTDCERCLPFFQDRPWARGTAEAAHECLPCNCSGRSEECTFDRELFRSTGHGG
RCHHCRDHTAGPHCERCQENFYHWDPRMPCQPCDCQSAGSLHLQCDTGTCAKPTVTGWKCDRCLPGFH
SLSEGGCRPCTCNPAGSLDTC DPRSGRCPCKENVEGNLCDRCRPGTFNLQPHNPAGCSSCFYGHSKVCA
STAQFQVHHILSDFHQGAEGWWARSVGGSEHPPQWSPNGVLLSPEDEEELTAPEKFLGDQRF SYGQPLIL
TFRVPPGDSPLPVQLRLEGTGLALSLRHSSLGPGQDAGHPREVELRFHLQETSEDVAPPLPFFHFQRLLA
NLTSLRLRVSPGSPAGPVFLTEVRLTSARPGLSPPASWVEICSCPTGYTGQFCESCAPGYKREMPQGGP
YASCVPCTCNQHGTCDPNTGICVCSHHTEGPSCERCLPGFYGNPFAGQADDQCPCPGQSACTTIPESR
EYVCTHCPPGQGRRCVCDGGFFGDPLGLFGHPQPCHQCQCSGNVDPNAVGNCDPLSGHCLRCLHNTTG
DHCEHCQEGFYGSALAPRPADKCMPCSCHPQGSVSEQMPCDPVTGQCSCLPHTARDCSRCYPGFFDLQP
GRGCRSCKCHPLGSQEDQCHPKTGQCTCRPGVTGQACDRCLGFFGFSIKGCRACRCSPLGAASAQCHEN
GTCVCRPGFEGYKCDRCHDNFFLTADGTHCQCPSCYALVKEEAALKARLTLTEGWLQGSDCGSPWGPL
DILLGEAPRGDYYQGHLLPGAREAFLEQMSLEGAVKAAREQLQRLNKGARCAQAGSQKTCTQLADLEA
VLESSEEEILHAAAILASLEIPQEGSPQTKWSHLATEARALARSHRDTATKIAATAWRALLASNTSYAL
LWNLLEGRVALETQRDLEDYQEVQAAQKALRTAVAEVLPEAESVLATVQVQVADTAPYLALLASPGALP
QKSRAEDLGLKAKALEKTVASWQHMAEAARTLQTAQAATLRQTEPLTKLHQEARAALTQASSSVQAATV
TYMGARTLLADLEGMKLFPRPKDQAALQRKADSVSDRLLADTRKKTQAERMLGNAAPLSSAKKKGRE
AEVLAKDSAKLAKALLRERKQARRASRLTSQTQATLQQAQQVLAASEARRQELEEAEVAGLSEMEQQ
IRESRISLEKDIETLSELLARLGLDTHQAPAQALNETQWALERLRLQLGSPGSLQRKLSLLEQESQQQE
LQIQGFESDLAEIRADKQNL EAILHSLPENCASWQ

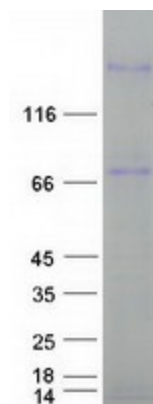
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK



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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- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
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_006050
RefSeq Size:	5100
RefSeq ORF:	4725
Synonyms:	OCCM
Locus ID:	10319
UniProt ID:	Q9Y6N6 , Q8N2D6
Cytogenetics:	9q34.12
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 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. 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 3. The gamma 3 chain is most similar to the gamma 1 chain, and contains all the 6 domains expected of the gamma chain. It is a component of laminin 12. The gamma 3 chain is broadly expressed in skin, heart, lung, and the reproductive tracts. In skin, it is seen within the basement membrane of the dermal-epidermal junction at points of nerve penetration. Gamma 3 is also a prominent element of the apical surface of ciliated epithelial cells of lung, oviduct, epididymis, ductus deferens, and seminiferous tubules. The distribution of gamma 3-containing laminins along ciliated epithelial surfaces suggests that the apical laminins are important in the morphogenesis and structural stability of the ciliated processes of these cells. [provided by RefSeq, Aug 2011]</p>
Protein Pathways:	ECM-receptor interaction, Focal adhesion, Pathways in cancer, Small cell lung cancer

Product images:

Coomassie blue staining of purified LAMC3 protein (Cat# [TP318146]). The protein was produced from HEK293T cells transfected with LAMC3 cDNA clone (Cat# [RC218146]) using MegaTran 2.0 (Cat# [TT210002]).