

Product datasheet for **TP317480**

Laminin beta 2 (LAMB2) (NM_002292) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human laminin, beta 2 (laminin S) (LAMB2), 20 µg
Species:	Human
Expression Host:	HEK293T



[View online »](#)

Expression cDNA Clone or AA Sequence: >RC217480 representing NM_002292
 Red=Cloning site Green=Tags(s)

MELTSRERGRGQPLPWELRLGLLSVLAATLAQAPAPDVPGCSRGCYPATGDLLVGRADRLTASSTCGL
 NGPQPYCIVSHLQDEKKCFLCDSRRPFSARDNPHSHRIQNVVTSFAPQRRAAWWQSENGIPAVTIQLDLE
 AEFHFTHLIMTFKTRPAAMLVERSADFGRTWHVYRYFSYDCGADFGVPLAPPRHWDDVVCESRYSEIE
 PSTEGEVIYRVLDPAIPIPDYSSRIQNLLKITNLRVNLTRLHTLGDNLLDPRREIREKYYYALYELVVR
 GNCFCYGHASECAPAPGAPAHAEGMVHGACICKHNTRGLNCEQCQDFYRDLWPWRPAEDGHSHACRKCE
 CH
 GHTHSCHFDMAVYLASGNVSGGVCDGCQHNTAGRHCELCRPFFYRDPTKDLRDPVCRSCDCDPMGS
 QDG
 GRCDSHDDPALGLVSGQCRCKEHVVGTRCQQCRDGGFGLSISDRLGCRRQCQNARGTVPGSTPCDPNSG
 S
 CYCKRLVTGRGCDRCLPGHWGLSHDLLGCRPCDCDVGGALDPQCDEGTGQCHCRQHMVGRRCEQVQP
 GYF
 RPFLDHLIWEAEDTRGQVLDWVERLVTPGETPSWTGSGFVRLQEGQTLEFLVASVPKAMDYDLLLRLEPQ
 VPEQWAELELIVQRPGVPVPAHSLCGHLVPKDDRIQGTQLPHARYLIFPNPVCLEPGISYKLHLKLVRTGG
 SAQPETPYSGPGLLIDSLVLLPRVLVLEMFSGGDAAALERQATFERYQCHEEGLVPSKTPSEACAPLLI
 SLSTLIYNGALPCQCNPQGSLSSECNPHGGQCLCKPGVVGRCDLCAPGYGFGPTGCQACQCSHEGALS
 SLCEKTSQGQCLCRTGAFGLRCDRCQRGQWGFPSRCPCVCNGHADECNHTHTGACLGCRDHTGGEHCERCI
 A
 GFHGDPRLPYGGQCRPCPCPEGPGSQRFHATSCHQDEYSQQIVCHCRAGYTGLRCEACAPGHFGDPSRP
 G
 GRCQLCECSGNIDPMDPDACDPHTGQCLRCLHHTEGPHCAHCKPGFHGQAARQSCHRCTCNLLGTNP
 QQC
 PSPDQCHCDPSSGQCPCLPNVQGPSCDRCAPNFWNLTSGHGCQPCACHPSRARGPTCNEFTGQCHCR
 AGF
 GGRTCSECQELHWGDPGLQCHACDCDSRGIDTPQCHRFTGHCSRCRPGVSGVRCDQCARAFSGIFPACHP
 C
 HACFGDWDRVVQDLAARTQRLEQRAQELQQTGVLGAFESSFWMQEKLGIVQGIVGARNTSAASTAQL
 VE
 ATEELRREIGEATEHLTQLEADLTDVQDENFNANHALSGLERDRLALNLTLRQLDQHLDLLKHSNFLAGY
 DSIRHAHSQSAEERRANTSALAVPSPVNSASARHRTEALMDAQKEDFNSKHMANQRALGKLSAHTHT
 L
 SLTDINELVCGAPGDAPCATSPCGGAGCRDEDGQPRCGGLSCNGAAATADLALGRARHTQAEQRALAEG
 GSILSRVAETRRQASEAQRAQAALDKANASRGQVEQANQELQELIQSVKDFLNQEGADPDSEIMVATRV
 LELSIPASAEQIQHLAGAIAERVRLADVDAILARTVGDVRRAEQLLQDARRARSWAEDEKQKAETVQAA
 LEEAQRAQGIAQGAIRGAVADTRDTEQTLYQVQERMAGAERALSAGERARQLDALLEALKLKRAGNSLA
 ASTAEETAGSAQGRAQAEQLLRGPLGDQYQTVKALAERKAQGVLAQAARAEQLRDEARDLLQAAQDKL
 Q
 RLQELEGTYEENERALESKAAQLDGLARMRSVLQAINLQVQIYNTCQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	192.4 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u>NP_002283</u>
Locus ID:	3913
UniProt ID:	<u>P55268</u>
RefSeq Size:	5815
Cytogenetics:	3p21.31
RefSeq ORF:	5394
Synonyms:	LAMS; NPHS5

Summary:

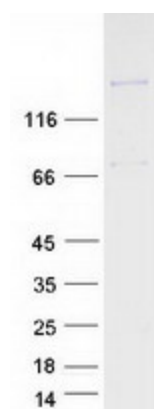
Laminins, a family of extracellular matrix glycoproteins, are the major noncollagenous constituent of basement membranes. They have been implicated in a wide variety of biological processes including cell adhesion, differentiation, migration, signaling, neurite outgrowth and metastasis. Laminins, composed of 3 non identical chains: laminin alpha, beta and gamma (formerly A, B1, and B2, respectively), 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 beta chain isoform laminin, beta 2. The beta 2 chain contains the 7 structural domains typical of beta chains of laminin, including the short alpha region. However, unlike beta 1 chain, beta 2 has a more restricted tissue distribution. It is enriched in the basement membrane of muscles at the neuromuscular junctions, kidney glomerulus and vascular smooth muscle. Transgenic mice in which the beta 2 chain gene was inactivated by homologous recombination, showed defects in the maturation of neuromuscular junctions and impairment of glomerular filtration. Alternative splicing involving a non consensus 5' splice site (gc) in the 5' UTR of this gene has been reported. It was suggested that inefficient splicing of this first intron, which does not change the protein sequence, results in a greater abundance of the unspliced form of the transcript than the spliced form. The full-length nature of the spliced transcript is not known. [provided by RefSeq, Aug 2011]

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 LAMB2 protein (Cat# TP317480). The protein was produced from HEK293T cells transfected with LAMB2 cDNA clone (Cat# [RC217480]) using MegaTran 2.0 (Cat# [TT210002]).