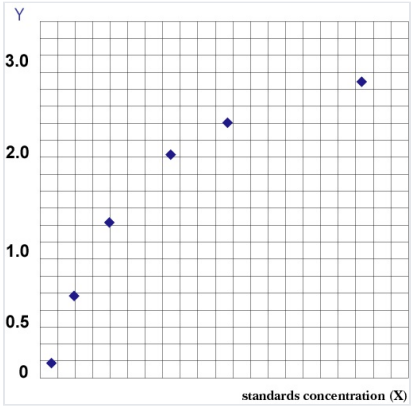
Laminin Beta2 (LAMB1) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Laminin beta2 (LAMB1), ELISA Kit
Full Product Name	Human Laminin beta2 ELISA Kit
Product Gene Name	LAMB1 elisa kit
Species Reactivity	Human
Assay Type	Sandwich
Samples	Serum, plasma, cell culture supernate and other biological fluids
Detection Range	75 pg/ml-1200 pg/ml
Sensitivity	1 pg/ml
OMIM	150240
3D Structure	ModBase 3D Structure for P07942
Production Time	Due to severe delay and raw materials shortage, production time may takes between 5-8 weeks.
Related Product Information for LAMB1 elisa kit	Intended Use: The Stop Solution changes the color from blue to yellow and the intensity of the color is measured at 450 nm using a spectrophotometer. In order to measure the concentration ofLAMININ beta2in the sample, This LAMININ beta2ELISA Kit includes a set of calibration standards. The calibration standards are assayed at the same time as the samples and allow the operator to produce a standard curve of Optical Density versusLAMININ beta2concentration. The concentration ofLAMININ beta2in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Other Notes	Small volumes of LAMB1 elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for LAMB1 purchase	MBS3803500 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Laminin beta2 (LAMB1) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing LAMB1. The ELISA analytical biochemical technique of the MBS3803500 kit is based on LAMB1 antibody-LAMB1 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect LAMB1 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, LAMB1. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve (for reference only) of LAMB1 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for LAMB1. It may not necessarily be applicable to this product.

NCBI GI #	167614504
NCBI GeneID	3912
UniProt Primary Accession #	P07942
UniProt Related Accession #	P07942
GenBank Nucleotide #	NP_002282.2
NCBI Official Full Name	laminin subunit beta-1
NCBI Official Synonym Full Names	laminin subunit beta 1
NCBI Official Symbol	LAMB1
NCBI Official Synonym Symbols	CLM; LIS5
UniProt Protein Name	Laminin subunit beta-1
UniProt Synonym Protein Names	Laminin B1 chain; Laminin-1 subunit beta; Laminin-10 subunit beta; Laminin-12 subunit beta; Laminin-2 subunit beta; Laminin-6 subunit beta; Laminin-8 subunit beta
Protein Family	Maltoporin
UniProt Gene Name	LAMB1
UniProt Entry Name	LAMB1_HUMAN
NCBI Protein Information	laminin subunit beta-1
NCBI Summary for LAMB1	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 beta chain isoform laminin, beta 1. The beta 1 chain has 7 structurally distinct domains which it shares with other beta chain isomers. The C-terminal helical region containing domains I and II are separated by domain alpha, domains III and V contain several EGF-like repeats, and domains IV and VI have a globular conformation. Laminin, beta 1 is expressed in most tissues that produce basement membranes, and is one of the 3 chains constituting laminin 1, the first laminin isolated from Engelbreth-Holm-Swarm (EHS) tumor. A sequence in the beta 1 chain that is involved in cell attachment, chemotaxis, and binding to the laminin receptor was identified and shown to have the capacity to inhibit metastasis. [provided by RefSeq, Aug 2011]

UniProt Comments for LAMB1	LAMB1: Binding to cells via a high affinity receptor, laminin is thought to mediate the attachment, migration and organization of cells into tissues during embryonic development by interacting with other extracellular matrix components. Protein type: Secreted, signal peptide; Motility/polarity/chemotaxis; Secreted Chromosomal Location of Human Ortholog: 7q22 Cellular Component: extracellular matrix; extracellular space; laminin-8 complex; laminin-1 complex; laminin-2 complex; perinuclear region of cytoplasm; laminin-10 complex; extracellular region; basement membrane Molecular Function: integrin binding; enzyme binding; extracellular matrix structural constituent; glycosphingolipid binding; structural molecule activity Biological Process: odontogenesis; axon guidance; extracellular matrix disassembly; extracellular matrix organization and biogenesis; neuronal-glial interaction involved in cerebral cortex radial glia guided migration; negative regulation of cell adhesion; cell adhesion; neurite development; positive regulation of epithelial cell proliferation; embryo implantation; positive regulation of cell migration Disease: Lissencephaly 5
Research Articles on LAMB1	**1.** Age-related modulation of laminin beta1 versus beta2 chain expression changes the functional properties and phenotype of endothelial cells. The dysregulation of the extracellular matrix during vascular aging may contribute to age-associated impairment of organ function and fibrosis.
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