LAMB1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	LAMB1, Polyclonal Antibody
Full Product Name	LAMB1 Polyclonal Antibody
Product Gene Name	anti-LAMB1 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	PBS with 0.02% sodium azide, 50% glycerol, pH 7.3.
Purity/Purification	Affinity Purification
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	198kDa
OMIM	150240
3D Structure	ModBase 3D Structure for P07942
Immunogen	Recombinant protein of human LAMB1 (NP_002282.2).
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-LAMB1 antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-LAMB1 antibody	WB: 1:1000-1:4000 IHC: 1:100-1:200
Related Product Information for anti-LAMB1 antibody	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.
Other Notes	Small volumes of anti-LAMB1 antibody 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	MBS8574305 is an antibody targeting LAMB1. Also known as LAMB1 Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.

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
NCBI Accession #	NP_002282.2
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
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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