

LAMB1 Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP13983b**Specification**

LAMB1 Antibody (C-term) Blocking peptide - Product InformationPrimary Accession [P07942](#)**LAMB1 Antibody (C-term) Blocking peptide - Additional Information****Gene ID** 3912**Other Names**

Laminin subunit beta-1, 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, LAMB1

Target/Specificity

The synthetic peptide sequence used to generate the antibody AP13983b was selected from the C-term region of LAMB1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

LAMB1 Antibody (C-term) Blocking peptide - Protein Information**Name** LAMB1**Function**

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. Involved in the organization of the laminar architecture of cerebral cortex. It is probably required for the integrity of the basement membrane/glia limitans that serves as an anchor point for the endfeet of radial glial cells and as a physical barrier to migrating neurons. Radial glial cells play a central role in cerebral cortical development, where they act both as the proliferative unit of the cerebral cortex and a scaffold for neurons migrating toward the pial surface.

Cellular Location

Secreted, extracellular space, extracellular matrix, basement membrane. Note=Major component

LAMB1 Antibody (C-term) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

LAMB1 Antibody (C-term) Blocking peptide - Images

LAMB1 Antibody (C-term) Blocking peptide - Background

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 nonidentical 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.

LAMB1 Antibody (C-term) Blocking peptide - References

Joslyn, G., et al. Alcohol. Clin. Exp. Res. 34(5):800-812(2010) McGovern, D.P., et al. Nat. Genet. 42(4):332-337(2010) Wheeler, H.E., et al. PLoS Genet. 5 (10), E1000685 (2009) :Rooney, J.E., et al. Proc. Natl. Acad. Sci. U.S.A. 106(19):7991-7996(2009) Delektorskaya, V.V., et al. Bull. Exp. Biol. Med. 146(5):616-619(2008)