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Datasheet for ABIN2856262  
**anti-LAMa4 antibody (C-Term)**

1 Image

Overview

Quantity:	100 µL
Target:	LAMa4
Binding Specificity:	C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This LAMa4 antibody is un-conjugated
Application:	Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	Recombinant protein encompassing a sequence within the C-terminus region of human Laminin alpha 4. The exact sequence is proprietary.
Isotype:	IgG
Cross-Reactivity:	Mouse
Characteristics:	Rabbit Polyclonal antibody to Laminin alpha 4 (laminin, alpha 4) Laminin alpha 4 antibody [C3], C-term
Purification:	Purified by antigen-affinity chromatography.

Target Details

Target:	LAMa4
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## Target Details

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Alternative Name: laminin subunit alpha 4 ([LAMa4 Products](#))

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**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 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 alpha chain isoform laminin, alpha 4. The domain structure of alpha 4 is similar to that of alpha 3, both of which resemble truncated versions of alpha 1 and alpha 2, in that approximately 1,200 residues at the N-terminus (domains IV, V and VI) have been lost. Laminin, alpha 4 contains the C-terminal G domain which distinguishes all alpha chains from the beta and gamma chains. The RNA analysis from adult and fetal tissues revealed developmental regulation of expression, however, the exact function of laminin, alpha 4 is not known. Tissue-specific utilization of alternative polyA-signal has been described in literature. Alternative splicing results in multiple transcript variants encoding distinct isoforms.

Cellular Localization: Secreted , extracellular space , extracellular matrix , basement membrane

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Molecular Weight: 203 kDa

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Gene ID: 3910

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UniProt: [Q16363](#)

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Pathways: [Brown Fat Cell Differentiation](#)

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## Application Details

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**Application Notes:** IHC-P: 1:100-1:1000. Optimal dilutions/concentrations should be determined by the researcher.  
Not tested in other applications.

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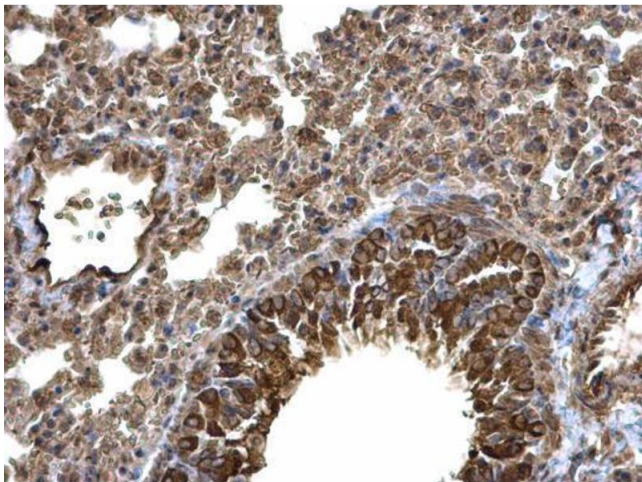
**Restrictions:** For Research Use only

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## Handling

Format:	Liquid
Concentration:	0.74 mg/mL
Buffer:	0.1M Tris-Glycine ( pH 7), 10 % Glycerol, 0.01 % Thimerosal
Preservative:	Thimerosal (Merthiolate)
Precaution of Use:	This product contains Thimerosal (Merthiolate): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

## Images



### Immunohistochemistry

**Image 1.** IHC-P Image Laminin alpha 4 antibody [C3], C-term detects Laminin alpha 4 protein at cytoplasm on mouse lung by immunohistochemical analysis. Sample: Paraffin-embedded mouse lung. Laminin alpha 4 antibody [C3], C-term , diluted at 1:500.