

Datasheet for 600-401-116-0.5**Laminin Antibody****Overview**

Description:	Anti-Laminin (RABBIT) Antibody - 600-401-116-0.5
Item No.:	600-401-116-0.5
Size:	500 µg
Applications:	IHC, ELISA, Other, WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	Anti-Laminin detects laminin. Laminins are an important and biologically active part of the basal lamina, influencing cell differentiation, migration, adhesion as well as phenotype and survival. The laminins are a family of glycoproteins that are an integral part of the structural scaffolding in almost every tissue of an organism. They are secreted and incorporated into cell-associated extracellular matrices. Defective laminins can cause muscles to form improperly, leading to a form of muscular dystrophy, lethal skin blistering disease and defects of the kidney filter. Anti-Laminin Antibody is ideal for investigators involved in Cell Signaling and Signal Transduction research.
Synonyms:	rabbit anti-Laminin antibody, LAMA1 antibody, LAMB1 antibody, Laminin A chain antibody, Laminin alpha 1 antibody, Laminin alpha 1 chain antibody, Laminin B1 chain antibody, Laminin subunit beta 1 antibody
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	LAMA1/LAMB1
Reactivity:	Human
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-Laminin Antibody was produced by repeated immunizations with a mixture of synthetic peptides corresponding to regions of adherence on laminin.
Purity/Specificity:	Anti-Laminin has been prepared by immunoaffinity chromatography using immobilized human placental laminin followed by extensive cross-adsorption against human serum proteins and collagen and non-collagen extracellular matrix proteins to remove any unwanted specificities. Typically less than 1% cross-reactivity against other extracellular matrix proteins was detected by ELISA against purified standards. This antibody reacts with most mammalian Laminins and has negligible cross-reactivity with Type I, II, III, IV, V or VI Collagens or Fibronectin. Non-specific cross-reaction of anti-Laminin antibodies with other human serum proteins or non-Laminin extracellular matrix proteins is negligible.
Relevant Links:	• 600-401-116 SDS • UniProtKB - P25391 • NCBI - AAA59486.1 • UniProtKB - P07942 • GenelD - 3912

Application Details

Tested Applications:	IHC
Suggested Applications:	ELISA, Other, WB (Based on references)
Application Note:	Anti-Laminin (RABBIT) Antibody has been tested by IHC and was assayed by immunoblot and found to be reactive against Laminin at a dilution of 1:5,000 to 1:10,000. Anti-Laminin (Human) (RABBIT) Antibody was also assayed against 1.0 µg of Laminin in a standard ELISA using Peroxidase conjugated Affinity Purified anti-Rabbit IgG [H&L] (Goat) code #611-1302 and (ABTS (2,2'-azino-bis-[3-ethylbenthiazoline-6-sulfonic acid]) code # ABTS-100 as a substrate for 30 minutes at room temperature. A working dilution of 1:4,000 to 1:8,000 of the stock concentration is suggested for this product. For immunohistochemistry on paraffin embedded tissue dilute the product 1:50 to 1:200. Specific conditions should be optimized by researcher.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:4,000 - 1:8,000
IHC:	1:50 - 1:200
IP:	1:100
WB:	1:500 - 1:2,000

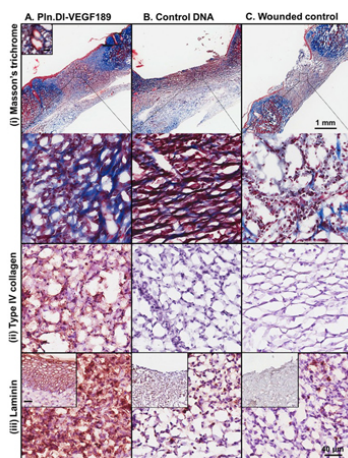
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.125 M Sodium Borate, 0.075 M Sodium Chloride, 0.005 M EDTA, pH 8.0
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

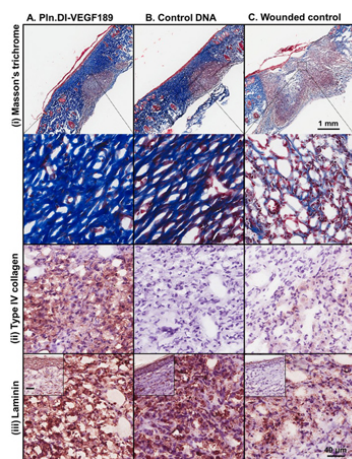
Shipping Condition:	Wet Ice
Storage Condition:	Store vial at 4° C prior to opening. This product is stable at 4° C as an undiluted liquid. Dilute only prior to immediate use. For extended storage, mix with an equal volume of glycerol, aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



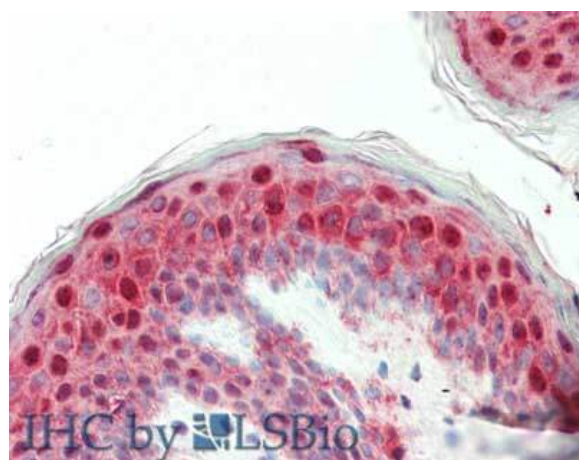
Immunohistochemistry

Expression of collagen and keratin (i), collagen type IV (ii) and laminin (iii) in normal rats after 14 days treatment with (A) Pln.D1-VEGF189 plasmid DNA, (B) control plasmid DNA loaded chitosan scaffolds or (C) control wounds. Collagen and keratin were detected in panel (i) using Masson's trichrome that stains collagen blue, keratin red and nuclei red/brown. The inset in panel A (i) is a representative blood vessel. The low magnification images in panel A reveal the wound site while the higher magnification images in panels A–C represent the healing region of the wounds. The inset in panels A–C (iii) represent the epidermis. Scale bar represented 1 mm (panel A) and higher magnification images contained a scale bar that represented 40 μ m and inset (panel A i and iii). Fig 6. PMID: 28189628



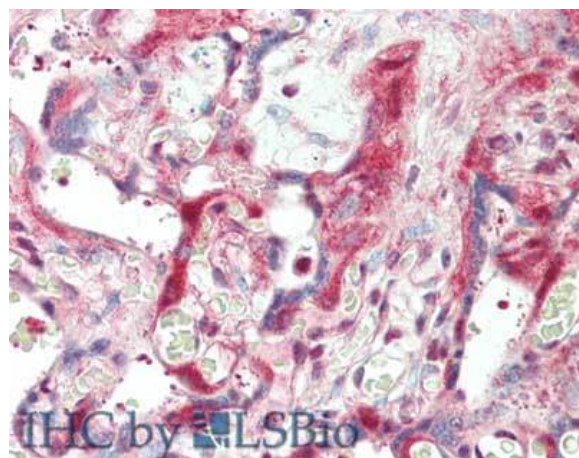
Immunohistochemistry

Expression of collagen and keratin (i), collagen type IV (ii) and laminin (iii) in diabetic rats after 28 days of treatment with (A) Pln.D1-VEGF189 plasmid DNA, (B) control plasmid DNA loaded chitosan scaffolds or (C) control wounds. Collagen and keratin were detected in panel (i) using Masson's trichrome that stains collagen blue, keratin red, nuclei and erythrocytes red/brown. The low magnification images in panel A reveal the wound site while the higher magnification images in panels A–C represent the healing region of the wounds. The inset in panels A–C (iii) represent the epidermis. Scale bar represented 1 mm (panel A) and higher magnification images contained a scale bar that represented 40 μ m and inset (panels A–C (iii)). Fig 10. PMID: 28189628



Immunohistochemistry

Immunohistochemistry of rabbit anti-Laminin antibody. Tissue: human placenta. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: Anti-Laminin at 5 μ g/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Staining: Laminin as precipitated red signal with hematoxylin purple nuclear counterstain.



Immunohistochemistry

Immunohistochemistry of rabbit anti-Laminin antibody. Tissue: human skin. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: Anti-Laminin at 5 μ g/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Staining: Laminin as precipitated red signal with hematoxylin purple nuclear counterstain.

References

- Lord MS et al. Perlecan and vascular endothelial growth factor-encoding DNA-loaded chitosan scaffolds promote angiogenesis and wound healing. *J Control Release*. (2017)
- Chuang CY et al. Oxidation modifies the structure and function of the extracellular matrix generated by human coronary artery endothelial cells. *Biochem J*. (2014)

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.