ARG10736
anti-Laminin 111 antibody

Package: 50 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes Laminin 111
Tested Reactivity	Hu, Ms, Rat
Tested Application	ICC/IF, IHC-Fr, WB
Specificity	ARG10736 Laminin-111 antibody recognizes 3 laminin isotypes: α1 (440kDa), β1 (220kD) and γ1 (220kDa).
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Laminin 111
Species	Mouse
Immunogen	Laminin isolated from Mouse EHS cells.
Conjugation	Un-conjugated
Alternate Names	LAMA; PTBHS; S-LAM-alpha; Laminin subunit alpha-1; laminin, beta 1; laminin, gamma 1

Application Instructions

Application table

Application	Dilution
ICC/IF	1:1000 - 1:5000
IHC-Fr	1:1000 - 1:5000
WB	1:1000 - 1:5000

Application Note

Note: Based on the reference PMID: 35453580 This antibody may also suitable for IHC-P application in human samples.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

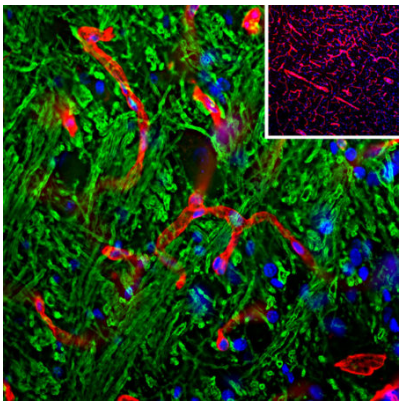
Form	Liquid
Purification	Affinity purification.
Buffer	PBS and 50% Glycerol.
Stabilizer	50% Glycerol
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 16772 Mouse GeneID: 284217 Human Swiss-port # P19137 Mouse Swiss-port # P25391 Human
Gene Symbol	Lama1
Gene Full Name	laminin, alpha 1; laminin, beta 1; laminin, gamma 1
Background	This gene encodes one of the alpha 1 subunits of laminin. The laminins are a family of extracellular matrix glycoproteins that have a heterotrimeric structure consisting of an alpha, beta and gamma chain. These proteins make up a major component of the basement membrane and have been implicated in a wide variety of biological processes including cell adhesion, differentiation, migration, signaling, neurite outgrowth and metastasis. Mutations in this gene may be associated with Poretti-Boltshauser syndrome. [provided by RefSeq, Sep 2014]
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. [UniProt]
Calculated Mw	337 kDa
PTM	Tyrosine phosphorylated by PKDCC/VLK.
Cellular Localization	Secreted › extracellular space › extracellular matrix › basement membrane Note: Major component.

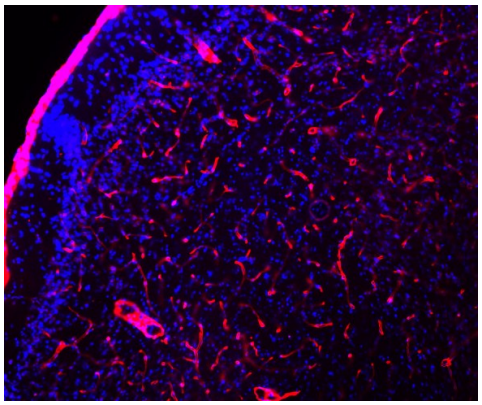
Images



ARG10736 anti-Laminin 111 antibody IHC-Fr image

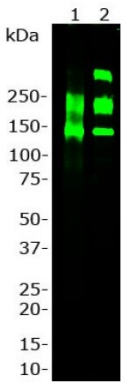
Immunohistochemistry: Frozen section of Rat brain stem stained with ARG10736 anti-Laminin 111 antibody (red) at 1:1000 dilution and costained with ARG52344 anti-Myelin Basic Protein antibody (green) at 1:5000 dilution. DAPI (blue) for nuclear staining. (Sample preparation: Following transcardial perfusion of Rat with 4% paraformaldehyde, brain was post fixed for 24 hours, cut to 45 µM, and free-floating sections were stained with the above antibodies.)

The Laminin antibody is an excellent marker of basement membranes surrounding blood vessels, while the MBP antibody stains the myelin sheathes around axons.



ARG10736 anti-Laminin 111 antibody IHC-Fr image

Immunohistochemistry: Frozen sections of Mouse cortex stained with ARG10736 anti-Laminin 111 antibody (red). Blue is DAPI staining of DNA. This antibody reveals strong staining in the basement membranes of blood vessels.



ARG10736 anti-Laminin 111 antibody WB image

Western blot: 1) Rat heart cells lysates, and 2) 0.2 µg of purified laminin-111 protein from Mouse EHS sarcoma was stained with ARG10736 anti-Laminin 111 antibody. This antibody recognizes 3 laminin isotypes: α1 (440 kDa), β1 (220kD) and γ1 (220 kDa). Also recognized a laminin binding protein at 120 kDa in both Rat heart lysates and purified laminin protein. Since this protein always coexpresses with laminin this cross reactivity is irrelevant.