ARG44857
anti-Laminin Subunit Alpha 4 / LAMA4 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody recognizes Laminin Subunit Alpha 4 / LAMA4
Tested Reactivity	Hu
Tested Application	IHC-P
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2a
Target Name	Laminin Subunit Alpha 4 / LAMA4
Species	Human
Epitope	VNEINATIYL LKTKLSEREN QYALRKIQIN NAENTMKSLL SDVEELVEKE NQASRKGQLV QKESMDTINH ASQLVEQAHD MRDKIQEINN KMLYYGEEHE LSPKEISEKL VLAQKMLEEI RSRQPFFTQR ELVDEEADEA YELLSQAESW QRLHNETRTL FPVVLEQLDD YNAKLSDLQE ALDQALNYVR DAEDMNRATA ARQRDHEKQQ ERVREQMEVV NMSLSTSADS LTTPRLTLSE LDDIIKNASG IYAEIDGAKS ELQVKLSNLS NLSHDLVQEA IDHAQDLQQE ANELSRKLHS SDMNGLVQKA LDASNVYENI VNYVSEANET AEFALNTTDR IYDAVSGIDT QIIYHKDESE NLLNQARELQ AKAESSSDEA
Conjugation	Un-conjugated
Alternate Names	LAMA4; Laminin Subunit Alpha 4; LAMA3; Laminin Subunit Alpha-4; Laminin, Alpha 4; Laminin-14 Subunit Alpha; Laminin-8 Subunit Alpha; Laminin-9 Subunit Alpha; Laminin Alpha 4 Chain; LAMA4*-1; CMD1JJ

Application Instructions

Application table

Application	Dilution
IHC-P	1:100

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

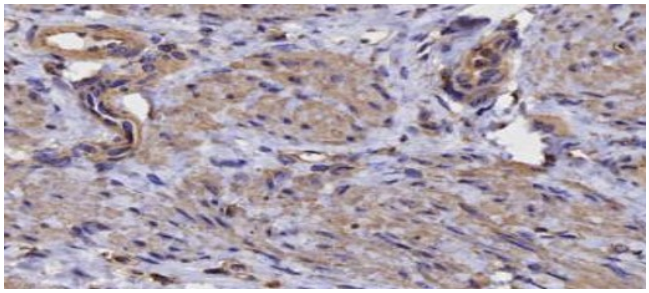
Properties

Form	Liquid
Purification	Protein A purification
Buffer	PBS with 0.09% sodium azide
Preservative	0.09% sodium azide
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 or below. 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

Gene Symbol	LAMA4
Gene Full Name	Laminin Subunit Alpha 4
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. [provided by RefSeq, Aug 2011]
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]
PTM	Disulfide bond, Glycoprotein, Proteoglycan. [Uniprot]
Cellular Localization	Basement membrane, Extracellular matrix, Secreted. [Uniprot]

Images



ARG44857 anti-Laminin Subunit Alpha 4 / LAMA4 antibody IHC-P image

Immunohistochemistry: smooth muscle stained with ARG44857 anti-Laminin Subunit Alpha 4 / LAMA4 antibody at 10 µg/mL dilution.