

ARG67143 anti-Collagen IV antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes Collagen IV
Tested Reactivity	Hu, Ms, Rat
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Collagen IV
Immunogen	Synthetic peptide
Conjugation	Un-conjugated
Alternate Names	COL4A1; Collagen Type IV Alpha 1 Chain; Collagen Alpha-1(IV) Chain; Collagen Of Basement Membrane, Alpha-1 Chain; Collagen IV, Alpha-1 Polypeptide; Collagen, Type IV, Alpha 1; COL4A1 NC1 Domain; EC 6.3.1.2; EC 3.4.23; Arresten; COL4A1s; PADMAL; BSVD1; RATOR; BSVD

Application Instructions

Application table	Application	Dilution
	IHC-P	1:300-1:500
	WB	1:1000-1:1500
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

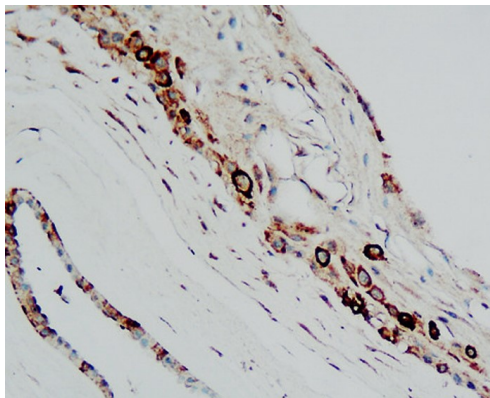
Properties

Form	Liquid
Purification	Affinity purified.
Buffer	100 mM Tris Glycine (pH 7.0), 0.025% ProClin 300 and 20% Glycerol.
Preservative	0.025% ProClin 300
Stabilizer	20% Glycerol
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

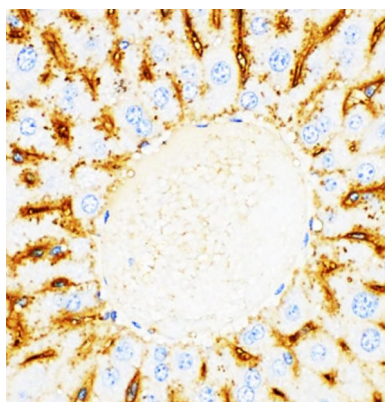
Gene Symbol	COL4A1
Gene Full Name	Collagen Type IV Alpha 1 Chain
Background	This gene encodes a type IV collagen alpha protein. Type IV collagen proteins are integral components of basement membranes. This gene shares a bidirectional promoter with a paralogous gene on the opposite strand. The protein consists of an amino-terminal 7S domain, a triple-helix forming collagenous domain, and a carboxy-terminal non-collagenous domain. It functions as part of a heterotrimer and interacts with other extracellular matrix components such as perlecan, proteoglycans, and laminins. In addition, proteolytic cleavage of the non-collagenous carboxy-terminal domain results in a biologically active fragment known as arresten, which has anti-angiogenic and tumor suppressor properties. Mutations in this gene cause porencephaly, cerebrovascular disease, and renal and muscular defects. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2014]
Function	Arresten, comprising the C-terminal NC1 domain, inhibits angiogenesis and tumor formation. The C-terminal half is found to possess the anti-angiogenic activity. Specifically inhibits endothelial cell proliferation, migration and tube formation. [UniProt]
Research Area	Angiogenesis Study antibody; Basement Membrane Marker antibody
Calculated Mw	161 kDa
PTM	Disulfide bond, Glycoprotein, Hydroxylation. [UniProt]
Cellular Localization	Basement membrane, Extracellular matrix, Secreted. [UniProt]

Images



ARG67143 anti-Collagen IV antibody IHC-P image

Immunohistochemistry: Human placenta stained with ARG67143 anti-Collagen IV antibody at 1:100 dilution.



ARG67143 anti-Collagen IV antibody IHC-P image

Immunohistochemistry: Mouse liver stained with ARG67143 anti-Collagen IV antibody at 1:100 dilution.