

## 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.	

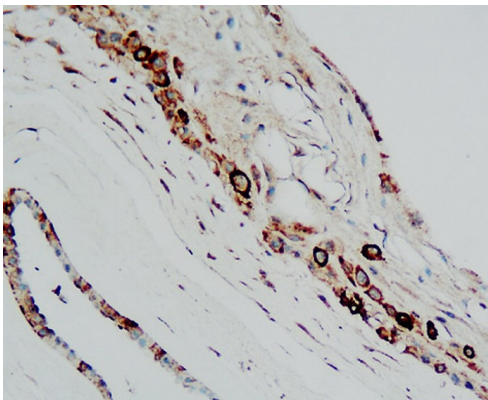
### Properties

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

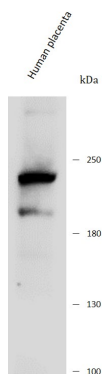
Gene Symbol	COL4A1
Gene Full Name	Collagen Type IV Alpha 1 Chain
Background	This gene encodes a type IV collagen alpha protein. Type IV collagen proteins are integral components of basement membranes. This gene shares a bidirectional promoter with a paralogous gene on the opposite strand. The protein 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



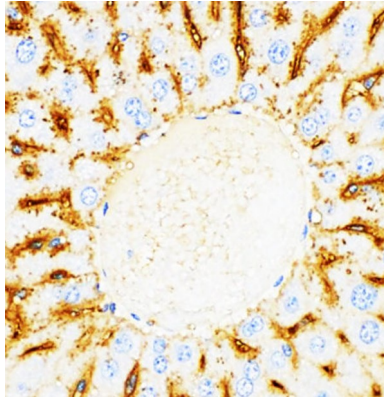
ARG67143 anti-Collagen IV antibody IHC-P image

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



ARG67143 anti-Collagen IV antibody WB image

Western blot: Human placenta stained with ARG67143 anti-Collagen IV antibody.



ARG67143 anti-Collagen IV antibody IHC-P image

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