

Datasheet for ABIN707396

anti-Collagen IV antibody (AA 1571-1669)

5 Images

2 Publications

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Overview

Quantity:	100 µL
Target:	Collagen IV (COL4)
Binding Specificity:	AA 1571-1669
Reactivity:	Human, Mouse, Rat, Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Collagen IV antibody is un-conjugated
Application:	ELISA, Western Blotting (WB), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Flow Cytometry (FACS), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunofluorescence (Cultured Cells) (IF (cc))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human Collagen alpha-1(IV) chain
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Pig, Rat
Predicted Reactivity:	Dog,Cow,Horse,Chicken,Rabbit
Purification:	Purified by Protein A.

Target Details

Target:	Collagen IV (COL4)
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Target Details

Alternative Name:	Collagen 4 (COL4 Products)
Background:	<p>Synonyms: ICH, HANAC, POREN1, arresten, Collagen alpha-1(IV) chain, COL4A1</p> <p>Background: Type IV collagen is the major structural component of glomerular basement membranes (GBM), forming a 'chicken-wire' meshwork together with laminins, proteoglycans and entactin/nidogen. 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. Inhibits expression of hypoxia-inducible factor 1alpha and ERK1/2 and p38 MAPK activation. Ligand for alpha1/beta1 integrin.</p>
Gene ID:	1282
UniProt:	P02462

Application Details

Application Notes:	<p>WB 1:300-5000</p> <p>ELISA 1:500-1000</p> <p>FCM 1:20-100</p> <p>IHC-P 1:200-400</p> <p>IHC-F 1:100-500</p> <p>IF(IHC-P) 1:50-200</p> <p>IF(IHC-F) 1:50-200</p> <p>IF(ICC) 1:50-200</p>
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C

Handling

Storage Comment: Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

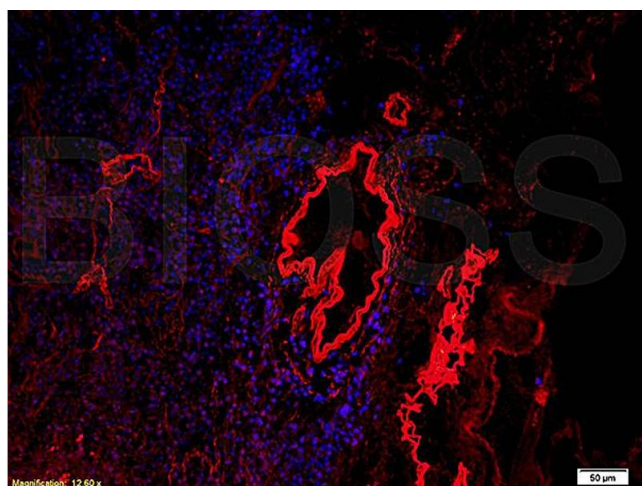
Expiry Date: 12 months

Publications

Product cited in: Sato, Coburn: "Leptospira interrogans causes quantitative and morphological disturbances in adherens junctions and other biological groups of proteins in human endothelial cells." in: **PLoS neglected tropical diseases**, Vol. 11, Issue 7, pp. e0005830, (2017) ([PubMed](#)).

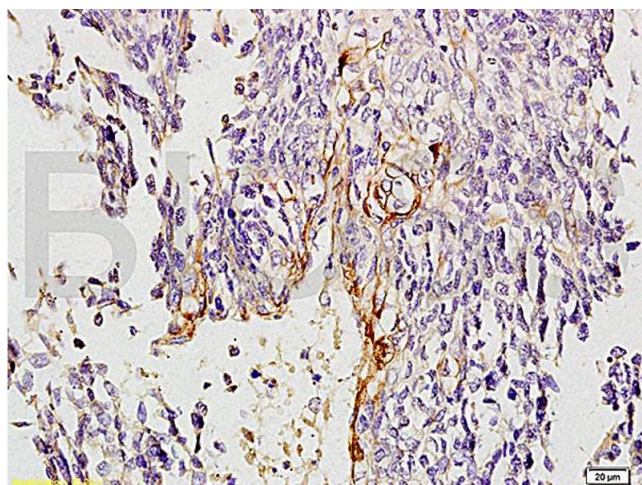
Wu, Zhang, Ma, Zhang, Qin: "The effect of resveratrol on FoxO1 expression in kidneys of diabetic nephropathy rats." in: **Molecular biology reports**, Vol. 39, Issue 9, pp. 9085-93, (2012) ([PubMed](#)).

Images



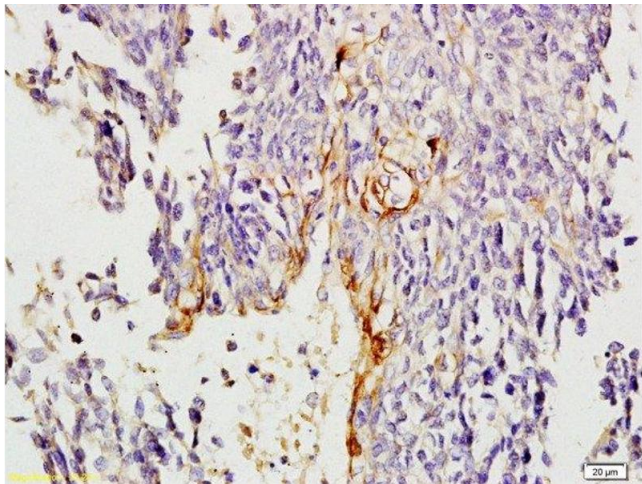
Immunofluorescence

Image 1. Formalin-fixed and paraffin embedded human esophageal cancer labeled with Anti-Collagen IV Polyclonal Antibody, Unconjugated (ABIN707396) at 1:200, followed by conjugation to the secondary antibody and DAB staining



Immunohistochemistry

Image 2. Formalin-fixed and paraffin embedded rat kidney tissue labeled with Anti-Collagen IV Polyclonal Antibody, Unconjugated (ABIN707396) at 1:200, followed by conjugation to the secondary antibody Goat Anti-Rabbit IgG, PE conjugated used at 1:200 dilution for 40 minutes at 37°C. DAPI was used to stain the cell nuclei



Immunohistochemistry (Paraffin-embedded Sections)

Image 3. Formalin-fixed and paraffin embedded human esophageal cancer labeled with Anti-Collagen IV Polyclonal Antibody, Unconjugated at 1:200, followed by conjugation to the secondary antibody and DAB staining

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN707396.