

Datasheet: 2150-0140 BATCH NUMBER 158784

Description:	RABBIT ANTI HUMAN COLLAGEN IV
Specificity:	COLLAGEN IV
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	0.5 ml

Product Details

Applications	This product has been re	ported to	work in th	ne following application	ns. This information is		
	derived from testing within our laboratories, peer-reviewed publications or personal						
	-	communications from the originators. Please refer to references indicated for further					
	information. For general protocol recommendations, please visit <u>www.bio-</u> rad-antibodies.com/protocols.						
		Immunohistology - Frozen				1/10 - 1/50	
	Immunohistology - Paraffin (1)	•			1/10 - 1/50		
	ELISA	•			1/1.5K - 1/6K		
	Western Blotting						
	Immunofluorescence				1/10 - 1/50		
	Where this product has not been tested for use in a particular technique this does not						
	necessarily exclude its use in such procedures. Suggested working dilutions are given as						
	a guide only. It is recommended that the user titrates the product for use in their own system using the appropriate negative/positive controls. (1) Pretreatment is required with 1 mg/ml pepsin in 0.5 M acetic acid for two hours at 37°C and multiple buffer washes.						
Target Species	Human						
Product Form	Purified IgG - lyophilised						
Reconstitution	Use 500 µl sterile distilled	d water.					
Preparation	Purified IgG prepared by	affinity c	hromatogı	raphy on immobilized h	numan collagen type IV		
Buffer Solution	0.1M Sodium Chloride						
	0.01M Sodium Phosphate						
	0.01M Sodium Borate						

Preservative Stabilisers	1% Mannitol 1% Dextran		
Immunogen	Collagen type IV from human placenta.		
External Database Links	UniProt:P02462Related reagentsP08572Related reagentsQ01955Related reagentsP53420Related reagentsP29400Related reagentsQ14031Related reagents		
	Entrez Gene:1282COL4A1Related reagents1284COL4A2Related reagents1285COL4A3Related reagents1286COL4A4Related reagents1287COL4A5Related reagents1288COL4A6Related reagents		
RRID	AB_2082644		
Specificity	Rabbit anti Human collagen IV antibody recogizes human collagen IV, also known as Collagen alpha-1(IV) chain. Collagen IV is a 1497 amino acid structural extracellular matrix protein and key component of the glomerular basement membrane. Arresten, comprising the c-terminal 225 amino acids of collagen IV demonstrates potent anti tumorigenic and anti angiogenic proterties (<u>Nyberg <i>et al.</i> 2008</u>). Rabbit anti Human collagen IV antibody exhibits the following reactivities with Collagen IV and related proteins:		
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	fluid (<u>Yoneda <i>et al.</i> 2013</u>). Other conditions resulting from mutations in the COL4A1 gene also exist presenting with some of the features described for the above conditions.
References	1. Jones. E.A.V. <i>et al.</i> (2008) Separating genetic and hemodynamic defects in neuropilin 1 knockout embryos. <u>Development. 135: 2479-88.</u>
	2. Cunningham, K. <i>et al.</i> (2011) Conditional deletion of Ccm2 causes hemorrhage in the adult brain: a mouse model of human cerebral cavernous malformations. <u>Hum Mol Genet.</u> 20: 3198-206.
	3. Reis, M. <i>et al.</i> (2012) Endothelial Wnt/β-catenin signaling inhibits glioma angiogenesis and normalizes tumor blood vessels by inducing PDGF-B expression. <u>J Exp Med. 209:</u> <u>1611-27.</u>
	 Powner, M.B. <i>et al.</i> (2010) Perifoveal müller cell depletion in a case of macular telangiectasia type 2. <u>Ophthalmology. 117: 2407-16.</u>
	 5. Dunér, P. <i>et al.</i> (2015) Increased aldehyde-modification of collagen type IV in symptomatic plaques - A possible cause of endothelial dysfunction. <u>Atherosclerosis. 240</u> (<u>1): 26-32.</u> 6. Powner, M.B. <i>et al.</i> (2016) Evaluation of Nonperfused Retinal Vessels in Ischemic Retinopathy. <u>Invest Ophthalmol Vis Sci. 57 (11): 5031-7.</u>
Storage	Store at -20°C only.
	Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody.
Guarantee	Guaranteed until date of expiry. Please see product label.
Health And Safety Information	Material Safety Datasheet documentation #20482 available at: https://www.bio-rad-antibodies.com/SDS/2150-0140 20482
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Rabbit IgG (Fc) (STAR121...)Biotin, FITC, HRPSheep Anti Rabbit IgG (STAR35...)RPEGoat Anti Rabbit IgG (H/L) (STAR124...)HRPRecommended Useful Reagents

ANTIGEN RETRIEVAL BUFFER, pH8.0 (BUF025A)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M380401:210511'

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