

Datasheet: 2150-0140 BATCH NUMBER 157740

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

Product Details

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal										
information. For general protocol recommendations, please visit <u>www.bio-</u> rad-antibodies.com/protocols.										
						Immunohistology - Frozen	103	NO	Not Determined	1/10 - 1/50
						Immunohistology - Paraffin				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										
(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.										
Human										
Purified IgG - lyophilised										
Use 500 µl sterile distilled	d water.									
Purified IgG prepared by	affinity cl	hromatogr	aphy on immobilized h	numan collagen type IV						
0.1M Sodium Chloride										
0.01M Sodium Phosphate	е									
	derived from testing withi communications from the information. For general p rad-antibodies.com/proto Immunohistology - Frozen Immunohistology - Paraffin (1) ELISA Western Blotting Immunofluorescence Where this product has n necessarily exclude its us a guide only. It is recomm system using the appropri (1) Pretreatment is requ at 37°C and multiple bu Human Purified IgG - Iyophilised Use 500 µl sterile distilled Purified IgG prepared by 0.1M Sodium Chloride	derived from testing within our lab communications from the originate information. For general protocols rad-antibodies.com/protocols. Yes Immunohistology - Frozen Immunohistology - Paraffin (1) ELISA Western Blotting Immunofluorescence Where this product has not been to necessarily exclude its use in such a guide only. It is recommended the system using the appropriate negation (1) Pretreatment is required with at 37°C and multiple buffer wash Human Purified IgG - lyophilised Use 500 µl sterile distilled water. Purified IgG prepared by affinity ch	derived from testing within our laboratories, communications from the originators. Please information. For general protocol recomment rad-antibodies.com/protocols. Yes No Immunohistology - Frozen Immunohistology - Paraffin (1) ELISA • Western Blotting Immunofluorescence • Where this product has not been tested for necessarily exclude its use in such procedu a guide only. It is recommended that the use system using the appropriate negative/posit (1) Pretreatment is required with 1 mg/ml at 37°C and multiple buffer washes. Human Purified IgG - Iyophilised Use 500 µl sterile distilled water. Purified IgG prepared by affinity chromatoge	derived from testing within our laboratories, peer-reviewed publical communications from the originators. Please refer to references in information. For general protocol recommendations, please visit wrad-antibodies.com/protocols. Yes No Not Determined Immunohistology - Frozen • Immunohistology - Paraffin (1) • ELISA • Western Blotting • Immunofluorescence • Where this product has not been tested for use in a particular tech necessarily exclude its use in such procedures. Suggested workin a guide only. It is recommended that the user titrates the product for system using the appropriate negative/positive controls. (1) Pretreatment is required with 1 mg/ml pepsin in 0.5 M acet at 37°C and multiple buffer washes. Human Purified IgG - lyophilised						

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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