Datasheet: 2150-0100

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

Product Details

Applications

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 communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen	▪			
Immunohistology - Paraffin	▪			1/10 - 1/40
ELISA	▪			1/2000 - 1/8000
Western Blotting			▪	

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.

Target Species

Human

Product Form

Purified IgG - lyophilised

Reconstitution

Reconstitute with 0.5 ml distilled water
Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution. For long term storage the addition of 0.09% sodium azide is recommended.

Antiserum Preparation

Antiserum to native and denatured human collagen type III was raised by repeated immunisation of rabbits with highly purified antigen. 2150-0100 has been cross-absorbed with immobilised human collagen types I, IV and V and with human blood plasma proteins.

Buffer Solution

Phosphate/Borate buffered saline.

Preservative Stabilisers

1% Dextran
1% Mannitol

Approx. Protein Concentrations

0.1 mg/ml after reconstitution

Immunogen

Collagen III from human placenta.

External Database Links	**UniProt:** P02461 Related reagents **Entrez Gene:** 1281 COL3A1 Related reagents
RRID	AB_620309
Specificity	**Rabbit anti Human collagen III antibody** recognizes human collagen type III. It has shown the following cross-reactivities. Human collagen type I <15% Human collagen type IV <5% Human collagen type II and V <1% Human plasma proteins do not interfere with binding of the antibody to collagen.
References	1. George, C.L. *et al.* (2001) Endotoxin responsiveness and subchronic grain dust-induced airway disease. Am J Physiol Lung Cell Mol Physiol. 280 (2): L203-13. 2. von Zur Muhlen, C. *et al.* (2009) Evaluation of urine proteome pattern analysis for its potential to reflect coronary artery atherosclerosis in symptomatic patients. J Proteome Res. 8 (1): 335-45. 3. Zorin, V,L, *et al.* (2014) Octacalcium phosphate ceramics combined with gingiva-derived stromal cells for engineered functional bone grafts. Biomed Mater. 9: 055005. 4. Zorin, V. *et al.* (2017) Clinical-instrumental and morphological evaluation of the effect of autologous dermal fibroblasts administration. J Tissue Eng Regen Med. 11 (3): 778-86. 5. El-Domyati, M. *et al.* (2002) Intrinsic aging vs. photoaging: a comparative histopathological, immunohistochemical, and ultrastructural study of skin. Exp Dermatol. 11: 398-405. 6. El-Domyati, M.B. *et al.* (2004) Trichloroacetic acid peeling versus dermabrasion: a histometric, immunohistochemical, and ultrastructural comparison. Dermatol Surg. 30: 179-88. 7. Iglezias, S.D. *et al.* (2008) Endomyocardial fibrosis: pathological and molecular findings of surgically resected ventricular endomyocardium. Virchows Arch. 453: 233-41. 8. El-Domyati, M.M. *et al.* (2004) Effect of topical tretinoin on photoaged facial skin: a histometric, immunohistochemical and ultrastructural study. J Cosmet Dermatol. 3: 191-201. 9. Sammons, R.L. *et al.* (2002) Histochemical, immunohistological and scanning electron microscope analysis of tissue retained on spontaneously extruded ventilation tubes. J Laryngol Otol. 116: 333-9.
Storage	Prior to reconstitution store at +4^{o}C. After reconstitution store at -20^{o}C. Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10325 available at: 10325: https://www.bio-rad-antibodies.com/uploads/MSDS/10325.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...)	FITC
Goat Anti Rabbit IgG (H/L) (STAR124...)	HRP
Goat Anti Rabbit IgG (Fc) (STAR121...)	Biotin, FITC, HRP
Sheep Anti Rabbit IgG (STAR35...)	RPE
Sheep Anti Rabbit IgG (STAR36...)	DyLight®488, DyLight®680, DyLight®800

Recommended Useful Reagents

ANTIGEN RETRIEVAL BUFFER, pH8.0 (BUF025A)
ANTIGEN RETRIEVAL BUFFER, pH8.0 (BUF025C)

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