

Datasheet: 2150-0100

BATCH NUMBER 170354

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 - lyophilized

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

0.1M Sodium Chloride

0.01M Sodium Phosphate

0.01M Sodium Borate

Preservative
Stabilisers

1% Mannitol

1% Dextran

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. El-Domyati, M. *et al.* (2002) Intrinsic aging vs. photoaging: a comparative histopathological, immunohistochemical, and ultrastructural study of skin. [Exp Dermatol. 11: 398-405.](#)
3. 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.](#)
4. El-Domyati, M.B. *et al.* (2004) Trichloroacetic acid peeling versus dermabrasion: a histometric, immunohistochemical, and ultrastructural comparison. [Dermatol Surg. 30: 179-88.](#)
5. 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.](#)
6. Iglezias, S.D. *et al.* (2008) Endomyocardial fibrosis: pathological and molecular findings of surgically resected ventricular endomyocardium. [Virchows Arch. 453: 233-41.](#)
7. 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.](#)

8. Zorin, V,L, *et al.* (2014) Octacalcium phosphate ceramics combined with gingiva-derived stromal cells for engineered functional bone grafts. [Biomed Mater. 9: 055005.](#)
9. 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.](#)
10. Segreto, F. *et al.* (2018) The role of angiogenesis, inflammation and estrogen receptors in breast implant capsules development and remodeling. [J Plast Reconstr Aesthet Surg. 71 \(5\): 637-43.](#)
11. Segreto, F. *et al.* (2020) The use of acellular porcine dermis, hyaluronic acid and polynucleotides in the treatment of cutaneous ulcers: Single blind randomised clinical trial. [Int Wound J. 17 \(6\): 1702-8.](#)
12. Segreto, F. *et al.* (2024) Cathelicidin LL-37 Expression in Human Breast Implant Capsules. [Plast Reconstr Surg. 153 \(5\): 1066-73.](#)

Storage	Prior to reconstitution store at +4°C. After reconstitution store at -20°C. 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/2150-0100
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

- Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)
 Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
 Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

Recommended Useful Reagents

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)

Product inquiries: www.bio-rad-antibodies.com/technical-support

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

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