

Datasheet: 2150-0100

**BATCH NUMBER 261114**

|                      |                                |
|----------------------|--------------------------------|
| <b>Description:</b>  | RABBIT ANTI HUMAN COLLAGEN III |
| <b>Specificity:</b>  | COLLAGEN III                   |
| <b>Format:</b>       | Purified                       |
| <b>Product Type:</b> | Polyclonal Antibody            |
| <b>Isotype:</b>      | Polyclonal IgG                 |
| <b>Quantity:</b>     | 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](http://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.

|                       |                            |
|-----------------------|----------------------------|
| <b>Target Species</b> | Human                      |
| <b>Product Form</b>   | 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.

|                        |                       |
|------------------------|-----------------------|
| <b>Buffer Solution</b> | 0.15M Sodium Chloride |
|------------------------|-----------------------|

0.1M Sodium Phosphate

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**Preservative** 1% Mannitol  
**Stabilisers** 1% Dextran

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**Approx. Protein Concentrations** 0.1 mg/ml after reconstitution

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**Immunogen** Collagen III from human placenta.

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**External Database Links**

**UniProt:**

[P02461](#)    [Related reagents](#)

**Entrez Gene:**

[1281](#) COL3A1    [Related reagents](#)

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**RRID** AB\_620309

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**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.

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**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.](#)

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|--------------------------------------|---|
| <b>Storage</b>                       | Prior to reconstitution store at +4°C.<br>After reconstitution store at -20°C.<br>Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. |
| <b>Guarantee</b>                     | 12 months from date of despatch   |
| <b>Health And Safety Information</b> | Material Safety Datasheet documentation #20472 available at: <a href="https://www.bio-rad-antibodies.com/SDS/2150-0100">https://www.bio-rad-antibodies.com/SDS/2150-0100</a><br>20472                       |
| <b>Regulatory</b>                    | For research purposes only  |

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## Related Products

### Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)  
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)  
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)  
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)

### Recommended Useful Reagents

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

|                                  |   |                  |   |               |   |
|----------------------------------|---|------------------|---|---------------|---|
| <b>North &amp; South America</b> | Tel: +1 800 265 7376<br>Fax: +1 919 878 3751<br>Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a> | <b>Worldwide</b> | Tel: +44 (0)1865 852 700<br>Fax: +44 (0)1865 852 739<br>Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a> | <b>Europe</b> | Tel: +49 (0) 89 8090 95 21<br>Fax: +49 (0) 89 8090 95 50<br>Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a> |
|----------------------------------|---|------------------|---|---------------|---|

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)  
'M378934:210315'

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