

## Datasheet: 2150-0020

<b>Description:</b>	RABBIT ANTI HUMAN COLLAGEN I
<b>Specificity:</b>	COLLAGEN I
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	50 µg

## 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
Immunohistology - Frozen	▪			1/10 - 1/50
Immunohistology - Paraffin (1)	▪			1/10 - 1/50
ELISA	▪			1/500 - 1/3000
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.

**(1) This product requires antigen retrieval using 1mg/ml pepsin in 0.5M acetic acid for 2 hours at 37°C and multiple buffer washes prior to staining of paraffin sections.**

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - lyophilised
<b>Reconstitution</b>	Reconstitute with 0.5ml 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 1% BSA and 0.09% sodium azide is recommended.
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on immobilized Collagen type I
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative</b>	1% Dextran
<b>Stabilisers</b>	1% Mannitol
<b>Immunogen</b>	Collagen type I from human placenta.
<b>External Database Links</b>	<b>UniProt:</b> <a href="#">P02452</a> <a href="#">Related reagents</a>

[P08123](#)   [Related reagents](#)

**Entrez Gene:**

[1277](#) COL1A1   [Related reagents](#)

[1278](#) COL1A2   [Related reagents](#)

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**Specificity**      **Rabbit anti Human collagen I antibody** recognizes human Collagen I, reacting with both native and heat denatured proteins, and has been cross-absorbed against Collagen types III, IV and V.

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**References**

1. Evans, M.J. *et al.* (2002) Fibroblast growth factor-2 during postnatal development of the tracheal basement membrane zone. [Am J Physiol Lung Cell Mol Physiol. 283 \(6\): L1263-70.](#)
2. Kim, H.J. & Im, G.I. (2010) The effects of ERK1/2 inhibitor on the chondrogenesis of bone marrow- and adipose tissue-derived multipotent mesenchymal stromal cells. [Tissue Eng Part A. 16: 851-60.](#)
3. Lee, J.S. and Im, G.I. (2010) Influence of chondrocytes on the chondrogenic differentiation of adipose stem cells. [Tissue Eng Part A. 16: 3569-77.](#)
4. Kim, Y.J. *et al.* (2008) PTHrP promotes chondrogenesis and suppresses hypertrophy from both bone marrow-derived and adipose tissue-derived MSCs. [Biochem Biophys Res Commun. 373: 104-8](#)
5. Li M *et al.* (2013) Short periods of cyclic mechanical strain enhance triple-supplement directed osteogenesis and bone nodule formation by human embryonic stem cells *in vitro*. [Tissue Eng Part A. 19 \(19-20\): 2130-7.](#)
6. Hoffman, J.K. *et al.* (2015) Articular cartilage repair using marrow stimulation augmented with a viable chondral allograft: 9-month postoperative histological evaluation. [Case Rep Orthop. 2015: 617365.](#)

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**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.

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**Shelf Life**      12 months from date of reconstitution.

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**Health And Safety Information**      Material Safety Datasheet documentation #10116 available at:  
10116: <https://www.bio-rad-antibodies.com/uploads/MSDS/10116.pdf>

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**Regulatory**      For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...)   [FITC](#)  
Sheep Anti Rabbit IgG (STAR35...)   [RPE](#)  
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)  
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)  
Sheep Anti Rabbit IgG (2AB02...)   [Biotin](#)  
Sheep Anti Rabbit IgG (STAR36...)   [DyLight®488](#), [DyLight®549](#), [DyLight®649](#),  
[DyLight®680](#), [DyLight®800](#)

### Recommended Useful Reagents

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

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025C\)](#)

**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

**Worldwide**

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: [antibody\\_sales\\_uk@bio-rad.com](mailto:antibody_sales_uk@bio-rad.com)

**Europe**

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: [antibody\\_sales\\_de@bio-rad.com](mailto:antibody_sales_de@bio-rad.com)

'M310935:171107'

**Printed on 02 May 2018**

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