

Datasheet: 2150-0020

**BATCH NUMBER 172219**

<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 - lyophilized
<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>	0.1M Sodium Chloride 0.01M Sodium Phosphate

0.01M Sodium Borate

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

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**Immunogen** Collagen type I from human placenta.

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**External Database Links**

**UniProt:**

[P02452](#) [Related reagents](#)

[P08123](#) [Related reagents](#)

**Entrez Gene:**

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

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

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**RRID** AB\_620307

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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, 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](#)
  3. 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.](#)
  4. 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.](#)
  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.](#)
  7. 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.](#)
  8. Segreto, F. *et al.* (2024) Cathelicidin LL-37 Expression in Human Breast Implant Capsules. [Plast Reconstr Surg. 153 \(5\): 1066-73.](#)
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**Storage**

This product is shipped at ambient temperature.  
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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<b>Guarantee</b>	Guaranteed until date of expiry. Please see product label.
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #20482 available at: <a href="https://www.bio-rad-antibodies.com/SDS/2150-0020">https://www.bio-rad-antibodies.com/SDS/2150-0020</a>
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<b>Regulatory</b>	For research purposes only
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## 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](http://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](http://bio-rad-antibodies.com/datasheets)  
'M442592:250528'

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