

Datasheet: 2150-0020

Description:	RABBIT ANTI HUMAN COLLAGEN I
Specificity:	COLLAGEN I
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	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.

	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.

Target Species	Human
Product Form	Purified IgG - lyophilized
Reconstitution	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.
Preparation	Purified IgG prepared by affinity chromatography on immobilized Collagen type I
Buffer Solution	0.1M Sodium Chloride 0.01M Sodium Phosphate 0.01M Sodium Borate

Preservative	1% Mannitol
Stabilisers	1% Dextran
Immunogen	Collagen type I from human placenta.
External Database Links	<p>UniProt:</p> <p>P02452 Related reagents</p> <p>P08123 Related reagents</p> <p>Entrez Gene:</p> <p>1277 COL1A1 Related reagents</p> <p>1278 COL1A2 Related reagents</p>
RRID	AB_620307
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.
References	<ol style="list-style-type: none"> Evans, M.J. <i>et al.</i> (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. Kim, Y.J. <i>et al.</i> (2008) PTHrP promotes chondrogenesis and suppresses hypertrophy from both bone marrow-derived and adipose tissue-derived MSCs. Biochem Biophys Res Commun. 373: 104-8 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. 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. Li M <i>et al.</i> (2013) Short periods of cyclic mechanical strain enhance triple-supplement directed osteogenesis and bone nodule formation by human embryonic stem cells <i>in vitro</i>. Tissue Eng Part A. 19 (19-20): 2130-7. Hoffman, J.K. <i>et al.</i> (2015) Articular cartilage repair using marrow stimulation augmented with a viable chondral allograft: 9-month postoperative histological evaluation. Case Rep Orthop. 2015: 617365. Segreto, F. <i>et al.</i> (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. Segreto, F. <i>et al.</i> (2024) Cathelicidin LL-37 Expression in Human Breast Implant Capsules. Plast Reconstr Surg. 153 (5): 1066-73.
Storage	<p>Prior to reconstitution store at +4°C.</p> <p>After reconstitution store at -20°C.</p> <p>Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody.</p>

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/2150-0020>
20482

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)

Sheep Anti Rabbit IgG (STAR35...) [RPE](#)

Recommended Useful Reagents

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

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

'M429171:240320'

Printed on 27 Sep 2024

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