Datasheet: 2150-0020

BATCH NUMBER 173449

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 Stabilisers	1% Mannitol 1% Dextran
Immunogen	Collagen type I from human placenta.
External Database Links	**UniProt:** P02452 Related reagents P08123 Related reagents **Entrez Gene:** 1277 COL1A1 Related reagents 1278 COL1A2 Related reagents
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	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.
Storage	This product is shipped at ambient temperature. Prior to reconstitution store at +4^{o}C. After reconstitution store at -20^{o}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/2150-0020
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

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

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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