

Datasheet: 2150-0001 **BATCH NUMBER 167863**

Description:	MOUSE ANTI HUMAN COLLAGEN I		
Specificity:	COLLAGEN I		
Format:	Purified		
Product Type:	Monoclonal Antibody		
Clone:	HC11 (NFI/20)		
Isotype:	lgG1		
Quantity:	0.1 mg		

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	•			1/20
ELISA	•			1/1000
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.

Target Species	Human
Product Form	lg fraction - lyophilized
Reconstitution	Use 1 ml of sterile distilled water.
Preparation	Ig fraction prepared by ammonium sulphate precipitation and DEAE-cellulose chromatography from ascites
Buffer Solution	0.1M Sodium Chloride 0.01M Sodium Phosphate 0.01M Sodium Borate
Preservative Stabilisers	1% Mannitol 1% Dextran

Immunogen	Human collagen type I from placenta.					
External Database	UniProt:					
LIIIKS	P02452 Related reagents					
	P08123 Related reagents					
	Entrez Gene:					
	1277 COL1A1 Related reagents					
	1278 COL1A2 Related reagents					
RRID	AB_620102					
Specificity	Mouse anti Human Collagen I, clone NFI/20 recognizes human Collagen I composed of trimers consisting of 2 Collagen alpha-2(I) chains and a single Collagen alpha-1(I) chain forming collagen fibrils in ligaments, tendon, skin and bone where they become mineralized by calcium hydroxyapatite. Mouse anti human Collagen I, clone NFI/20 does not cross-react with collagen types II, III and IV. Collagen is located in the extracellular matrix of connective tissues. It is part of the interacting network of proteoglycans and proteins that provides a structural framework for both soft and calcified connective tissues. Mutations in the encoding gene are associated with osteogenesis imperfecta (Peng et al. 2012), Ehlers Danlos syndrome (Nuytinck et al. 2000) and idiopathic juvenile osteoporosis (Pocock et al. 1995). Defective processing of collagen I by lysyl hydroxylase has also been implicated in Ehlers Danlos syndrome (Ihme et al. 1984),					
References	 Zorin, V. et al. (2015) Clinical-instrumental and morphological evaluation of the effect of autologous dermal fibroblasts administration. J Tissue Eng Regen Med. 11 (3): 778-86. Zorin, V.L. et al. (2014) Octacalcium phosphate ceramics combined with gingiva-derived stromal cells for engineered functional bone grafts. Biomed Mater. 9 (5): 055005. Seedhom, B.B. et al. (2007) In-situ engineering of cartilage repair: a pre-clinical in-vivo exploration of a novel system. Proc Inst Mech Eng H. 221: 475-88. 					
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.					
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/2150-0001 20482					
Regulatory	For research purposes only					

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...) RPE

Goat Anti Mouse IgG IgA IgM (STAR87...) HRP

Goat Anti Mouse IgG (STAR76...) RPE

Goat Anti Mouse IgG (STAR70...) FITC

Goat Anti Mouse IgG (H/L) (STAR117...) Alk. Phos., DyLight®488, DyLight®550,

DyLight®650, DyLight®680, DyLight®800,

FITC, HRP

Rabbit Anti Mouse IgG (STAR13...) HRP

Goat Anti Mouse IgG (Fc) (STAR120...) FITC, HRP

Rabbit Anti Mouse IgG (STAR9...) <u>FITC</u>
Goat Anti Mouse IgG (STAR77...) <u>HRP</u>

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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 'M405725:220916'

Printed on 08 Nov 2024

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