

Datasheet: 2150-0040

**BATCH NUMBER 151166**

<b>Description:</b>	MOUSE ANTI HUMAN COLLAGEN II
<b>Specificity:</b>	COLLAGEN II
<b>Format:</b>	Ascites
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	COLL-II
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	0.1 ml

## 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 - Paraffin	▪			1/50
ELISA	▪			1/100 - 1/500
Western Blotting	▪			1/1000 - 1/2000
Immunofluorescence (1)	▪			Neat - 1/5

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 appropriate negative/positive controls.

**(1) Suitable for use on fresh, frozen or acetone fixed material. Mild pepsin digestion is recommended to enhance staining.**

<b>Target Species</b>	Human
<b>Species Cross Reactivity</b>	<p>Reacts with: Rat, Bovine, Sheep, Mouse, Dog, Pig</p> <p><b>N.B.</b> Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.</p>
<b>Product Form</b>	Ascites - liquid
<b>Preservative Stabilisers</b>	None present

**Immunogen** Human (cartilage specific) CNBr-cleaved collagen 2.

**External Database**

**Links**

**UniProt:**

[P02458](#)

[Related reagents](#)

**Entrez Gene:**

[1280](#)

COL2A1

[Related reagents](#)

**RRID**

AB\_2082176

**Specificity**

**Mouse anti Collagen II antibody, clone COLL-II** recognizes human collagen type II, the main collagen in cartilaginous tissue. Mouse anti Collagen II antibody, clone COLL-II reacts with both pepsin solubilised and CNBr-cleaved human and bovine collagen type II. No-cross reactivity is seen with types I, III, V or IX.

**References**

1. Wilkins, B.S. & Jones, D.B. (1995) Immunohistochemical characterization of intact stromal layers in long-term cultures of human bone marrow. [Br J Haematol. 90 \(4\): 757-66.](#)
2. Herrero-mendez, A. *et al.* (2017) HR007: a family of biomaterials based on glycosaminoglycans for tissue repair. [J Tissue Eng Regen Med. 11 \(4\): 989-1001.](#)
3. Glant, T.T. *et al.* (1985) Appearance and persistence of fibronectin in cartilage. Specific interaction of fibronectin with collagen type II. [Histochemistry. 82 \(2\): 149-58.](#)
4. Hashemi Beni, B. *et al.* (2008) Induction of Chondrogenic Differentiation of Human Adipose-Derived Stem Cells with TGF- $\beta$ 3 in Pellet Culture System [Iranian J basic Med Res. 11: 10-17](#)

**Further Reading**

1. Miller, E.J. (1972) Structural studies on cartilage collagen employing limited cleavage and solubilization with pepsin. [Biochemistry. 11 \(26\): 4903-9.](#)

**Storage**

Store at -20°C only.  
Storage in frost-free freezers is not recommended.  
This product should be stored undiluted.  
Avoid repeated freezing and thawing as this may denature the antibody.  
Should this product contain a precipitate we recommend microcentrifugation before use.

**Guarantee**

12 months from date of despatch

**Health And Safety Information**

Material Safety Datasheet documentation #10194 available at:  
<https://www.bio-rad-antibodies.com/SDS/2150-0040>  
10194

**Regulatory**

For research purposes only

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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)

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