

## Datasheet: 2150-0040

|                      |                              |
|----------------------|------------------------------|
| <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 |
|------------------------|-----|----|----------------|--------------------|
| 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> | Reacts with: Rat, Bovine, Sheep, Mouse, Dog, Pig<br><b>N.B.</b> Antibody reactivity and working conditions may vary between species.  |
| <b>Product Form</b>             | Ascites - liquid  |
| <b>Preservative Stabilisers</b> | None present  |
| <b>Immunogen</b>                | Human (cartilage specific) CNBr-cleaved collagen 2.   |
| <b>External Database Links</b>  | <p><b>UniProt:</b><br/> <a href="#">P02458</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b><br/> <a href="#">1280</a>    COL2A1    <a href="#">Related reagents</a></p> |

**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.

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**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](#)

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**Further Reading**

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

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**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.

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**Shelf Life**

18 months from date of despatch.

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**Health And Safety Information**

Material Safety Datasheet documentation #10194 available at:  
10194: <https://www.bio-rad-antibodies.com/uploads/MSDS/10194.pdf>

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**Regulatory**

For research purposes only

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## Related Products

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

**North & South** Tel: +1 800 265 7376

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