

Datasheet: 2150-0040

BATCH NUMBER 165355

Description:	MOUSE ANTI HUMAN COLLAGEN II
Specificity:	COLLAGEN II
Format:	Ascites
Product Type:	Monoclonal Antibody
Clone:	COLL-II
Isotype:	IgG1
Quantity:	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.

	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.

Target Species

Human

Species Cross Reactivity

Reacts with: Rat, Bovine, Sheep, Mouse, Dog, Pig

N.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.

Product Form

Ascites - liquid

Preservative Stabilisers

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- β 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.

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

North & South America Tel: +1 800 265 7376

Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

Worldwide

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_de@bio-rad.com

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)

