Datasheet: 2150-0040

BATCH NUMBER 160136

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-β3 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

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