

Datasheet: 2150-1410

BATCH NUMBER 161415

Description:	RABBIT ANTI MOUSE COLLAGEN I
Specificity:	COLLAGEN I
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
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 - Frozen	▪			
Immunohistology - Paraffin	▪			1/250 - 1/1000
ELISA	▪			1/100 - 1/400
Western Blotting	▪			
Immunofluorescence	▪			1/50 - 1/100
Radioimmunoassays	▪			

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	Mouse
Product Form	Purified Ig - liquid
Preparation	Purified Ig prepared by affinity chromatography
Buffer Solution	Phosphate buffered saline 0.1M Citrate
Preservative Stabilisers	<0.1% Sodium Azide (NaN ₃) Antibiotic antimycotic mixture 1%
Immunogen	Native type I collagen from mouse skin.

**External Database
Links**

UniProt:

[P11087](#) [Related reagents](#)
[Q01149](#) [Related reagents](#)

Entrez Gene:

[12842](#) Col1a1 [Related reagents](#)
[12843](#) Col1a2 [Related reagents](#)

Synonyms Cola1, Cola2

RRID AB_620433

Specificity **Rabbit anti Mouse Collagen I antibody** recognizes murine collagen 1. Collagen 1 is a fibrillar forming collagen, a secreted protein forming part of the extracellular matrix. Less than 1% cross reactivity has been observed with mouse collagen, types II, VI and III and human, chicken and rat collagen, type I.

References

1. Uezumi, A. *et al.* (2011) Fibrosis and adipogenesis originate from a common mesenchymal progenitor in skeletal muscle. [J Cell Sci. 124: 3654-64.](#)
2. Takase, H.M. *et al.* (2013) FGF7 is a functional niche signal required for stimulation of adult liver progenitor cells that support liver regeneration. [Genes Dev. 27: 169-81.](#)
3. Birbrair A *et al.* (2013) Type-1 pericytes participate in fibrous tissue deposition in aged skeletal muscle. [Am J Physiol Cell Physiol. 305 \(11\): C1098-113.](#)
4. Randles, M.J. *et al.* (2015) Genetic Background is a Key Determinant of Glomerular Extracellular Matrix Composition and Organization. [J Am Soc Nephrol. 26 \(12\): 3021-34.](#)
5. Ma, M.S. *et al.* (2017) Characterization and comparison of osteoblasts derived from mouse embryonic stem cells and induced pluripotent stem cells. [J Bone Miner Metab. 35 \(1\): 21-30.](#)
6. Valero-Muñoz, V. *et al.* (2019) Supplementation with an insoluble fiber obtained from carob pod (*Ceratonia siliqua* L.) rich in polyphenols prevents dyslipidemia in rabbits through SIRT1/PGC-1 α pathway. [Eur J Nutr. 58 \(1\): 357-66.](#)
7. Riedel, A. *et al.* (2022) Tumor-Derived Lactic Acid Modulates Activation and Metabolic Status of Draining Lymph Node Stroma [Cancer Immunology Research. 10 \(4\): 482-97.](#)

Storage This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

Guarantee 12 months from date of despatch

**Health And Safety
Information** Material Safety Datasheet documentation #20470 available at:
<https://www.bio-rad-antibodies.com/SDS/2150-1410>
20470

Related Products

Recommended Secondary Antibodies

Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

Sheep Anti Rabbit IgG (STAR35...) [RPE](#)

Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)

Recommended Useful Reagents

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)

North & South Tel: +1 800 265 7376

America 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

'M426732:240221'

Printed on 21 Feb 2024
