

Datasheet: 2150-1410

**BATCH NUMBER 157873**

<b>Description:</b>	RABBIT ANTI MOUSE COLLAGEN I
<b>Specificity:</b>	COLLAGEN I
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<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 - 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.

<b>Target Species</b>	Mouse
<b>Product Form</b>	Purified Ig - liquid
<b>Preparation</b>	Purified Ig prepared by affinity chromatography
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> ) Antibiotic antimycotic mixture 1%
<b>Immunogen</b>	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](#)

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**Synonyms** Cola1, Cola2

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**RRID** AB\_620433

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**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.

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**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.* (2016) Characterization and comparison of osteoblasts derived from mouse embryonic stem cells and induced pluripotent stem cells. [J Bone Miner Metab. Jan 8. \[Epub ahead of print\]](#)
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 $\alpha$  pathway. [Eur J Nutr. 58 \(1\): 357-66.](#)

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**Storage** Store at +4°C or at -20°C if preferred.  
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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**Guarantee** 12 months from date of despatch

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

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**Regulatory** For research purposes only

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## 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](mailto:antibody_sales_us@bio-rad.com)

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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://bio-rad-antibodies.com/datasheets)

'M372166:200630'

Printed on 21 Feb 2024

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