

## Datasheet: 2150-0180

|                      |                              |
|----------------------|------------------------------|
| <b>Description:</b>  | RABBIT ANTI HUMAN COLLAGEN V |
| <b>Specificity:</b>  | COLLAGEN V                   |
| <b>Format:</b>       | Purified                     |
| <b>Product Type:</b> | Polyclonal Antibody          |
| <b>Isotype:</b>      | Polyclonal IgG               |
| <b>Quantity:</b>     | 0.5 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       | ■   |    |                | 1/20               |
| Immunohistology - Paraffin (1) | ■   |    |                | 1/20               |
| ELISA                          | ■   |    |                | 1/1500             |
| Immunofluorescence             | ■   |    |                |                    |

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.

**(1) This product requires protein digestion pre-treatment of paraffin sections. 1 mg/ml pepsin in 0.5M acetic acid for 2 hours at 37°C and multiple buffer washes is recommended.**

|                                           |                                                                                                                                                                                                                                                                                                                                           |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Target Species</b>                     | Human                                                                                                                                                                                                                                                                                                                                     |
| <b>Product Form</b>                       | Purified IgG - lyophilised                                                                                                                                                                                                                                                                                                                |
| <b>Reconstitution</b>                     | Reconstitute with 0.5 ml distilled water containing 0.1% bovine serum albumin<br>Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution. For long term storage the addition of 0.09% sodium azide is recommended. |
| <b>Preparation</b>                        | Purified IgG prepared by affinity chromatography                                                                                                                                                                                                                                                                                          |
| <b>Buffer Solution</b>                    | Phosphate/borate buffered saline.                                                                                                                                                                                                                                                                                                         |
| <b>Preservative<br/>Stabilisers</b>       | 1% Dextran<br>1% Mannitol                                                                                                                                                                                                                                                                                                                 |
| <b>Approx. Protein<br/>Concentrations</b> | IgG concentration 0.1 mg/ml after reconstitution                                                                                                                                                                                                                                                                                          |
| <b>Immunogen</b>                          | Native human collagen V from placenta.                                                                                                                                                                                                                                                                                                    |

**External Database  
Links**

**UniProt:**

[P20908](#) [Related reagents](#)  
[P05997](#) [Related reagents](#)  
[P25940](#) [Related reagents](#)

**Entrez Gene:**

[1289](#) COL5A1 [Related reagents](#)  
[1290](#) COL5A2 [Related reagents](#)  
[50509](#) COL5A3 [Related reagents](#)

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**Specificity**

**Rabbit anti Human collagen V antibody** recognizes human collagen V and demonstrates the following cross reactivities as demonstrated by ELISA:  
Human collagen type V 100%  
Human collagen type IV <5%  
Human collagen type I & III <3%  
Human plasma proteins <0.5%

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**References**

1. Evans, M. J. *et al.* (2002) Fibroblast growth factor-2 during postnatal development of the tracheal basement membrane [Am J Physiol Lung Cell Mol Physiol 283: 1263 - 1270](#)
2. Mohan, H. *et al.* (2010) Extracellular matrix in multiple sclerosis lesions: Fibrillar collagens, biglycan and decorin are upregulated and associated with infiltrating immune cells. [Brain Pathol. 20: 966-75.](#)

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**Storage**

Prior to reconstitution store at +4°C.  
After reconstitution store at -20°C.  
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**

12 months from date of reconstitution.

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**Health And Safety  
Information**

Material Safety Datasheet documentation #10325 available at:  
10325: <https://www.bio-rad-antibodies.com/uploads/MSDS/10325.pdf>

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**Regulatory**

For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)  
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)  
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)  
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)  
Sheep Anti Rabbit IgG (2AB02...) [Biotin](#)  
Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®549](#), [DyLight®649](#),  
[DyLight®680](#), [DyLight®800](#)

### Recommended Useful Reagents

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)  
[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025C\)](#)

|                                  |                                                                                                                                         |                  |                                                                                                                                                                     |               |                                                                                                                                                     |
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