

Datasheet: 2150-1470

**BATCH NUMBER 163290**

<b>Description:</b>	RABBIT ANTI MOUSE COLLAGEN IV
<b>Specificity:</b>	COLLAGEN IV
<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	▪			1/500
Immunohistology - Paraffin	▪			1/500
ELISA	▪			1/2000
Immunoprecipitation			▪	
Western Blotting			▪	
Immunofluorescence	▪			1/40

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.

### Target Species

Mouse

### Species Cross Reactivity

Reacts with: Orangutan, Rat, Human

**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

Purified Ig - liquid

### Preparation

Purified IgG prepared by antigen column chromatography

### Buffer Solution

Phosphate buffered saline  
0.1M citrate

<b>Preservative</b>	<0.1% Sodium Azide (NaN <sub>3</sub> )
<b>Stabilisers</b>	Antibiotic antimycotic mixture 1%
<b>Immunogen</b>	Collagen IV purified from mouse EHS tumor.

**External Database Links**

**UniProt:**

<a href="#">P02463</a>	<a href="#">Related reagents</a>
<a href="#">P08122</a>	<a href="#">Related reagents</a>
<a href="#">Q9QZS0</a>	<a href="#">Related reagents</a>
<a href="#">Q9QZR9</a>	<a href="#">Related reagents</a>
<a href="#">Q80V57</a>	<a href="#">Related reagents</a>
<a href="#">Q6PFB1</a>	<a href="#">Related reagents</a>

**Entrez Gene:**

<a href="#">12826</a>	Col4a1	<a href="#">Related reagents</a>
<a href="#">12827</a>	Col4a2	<a href="#">Related reagents</a>
<a href="#">12828</a>	Col4a3	<a href="#">Related reagents</a>
<a href="#">12829</a>	Col4a4	<a href="#">Related reagents</a>

<b>RRID</b>	AB_2082660
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**Specificity** **Rabbit anti Mouse Collagen IV antibody** recognizes mouse collagen type IV. Collagen IV is a 1682 amino acid ~160 kDa (predicted) matrix protein and major component of glomerular basement membranes. Multiple isoforms exist each capable of forming triple helical structures with two other chains to form the type IV collagen network. The collagen IV alpha chain can be cleaved between residues 1444-1445 to yield the c-terminal 225 amino acid, ~28 kDa arrestin fragment, collagen α2(IV) yields a c-terminal canstatin fragment while Collagen α3(IV) yields a tumstatin fragment. Collagen IV bears a single [collagen IV NC1](#) (C-terminal non-collagenous) domain ([UniProt: Q9QZR9](#)).

Mutations in collagen IV genes have been implicated in inherited nephropathies and potentially in cystic kidney disease and intracranial aneurysms ([Plaisier et al. 2007](#)).

Rabbit anti Mouse Collagen IV antibody has been successfully employed for the detection of collagen IV by immunofluorescence and immunohistochemistry in mice ([Tang et al. 2010](#)), rats ([Shen et al. 2014](#)) and orangutan ([Bredies et al. 2013](#)).

The following cross reactivities have been observed:

Mouse type IV	100%
Mouse types I, II & III	<0.1%
Human types IV & V	<0.1%
Mouse fibronectin & laminin	<0.1%

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**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.

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<b>Guarantee</b>	12 months from date of despatch
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #20470 available at: <a href="https://www.bio-rad-antibodies.com/SDS/2150-1470">https://www.bio-rad-antibodies.com/SDS/2150-1470</a> 20470
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<b>Regulatory</b>	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 \(BUF025A\)](#)

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