

Datasheet: 134001

Description:	GOAT ANTI HUMAN COLLAGEN IV
Specificity:	COLLAGEN IV
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	0.2 mg

## **Product Details**

## **Applications**

Links

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	-			1/10 - 1/40
Immunohistology - Paraffin				
ELISA	-			1/1000 - 1/4000
Immunofluorescence	-			
Immunoblotting				

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	Human
Species Cross Reactivity	Reacts with: Rat, Mouse  N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid

**Antiserum Preparation** Antiserum to human collagen IV was raised by repeated immunisation of goats with highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography.

External Database	UniProt:
Immunogen	Human Collagen Type IV from human placenta
Approx. Protein Concentrations	IgG concentration 0.4 mg/ml
Preservative Stabilisers	None present
Buffer Solution	Borate buffered saline

P02462	Related reagents
P08572	Related reagents
Q01955	Related reagents
P53420	Related reagents
P29400	Related reagents
Q14031	Related reagents

#### **Entrez Gene:**

<u>1282</u>	COL4A1	Related reagents
<u>1284</u>	COL4A2	Related reagents
<u>1285</u>	COL4A3	Related reagents
<u>1286</u>	COL4A4	Related reagents
<u>1287</u>	COL4A5	Related reagents
<u>1288</u>	COL4A6	Related reagents

#### **Specificity**

**Goat anti Human collagen IV antibody** recognizes human collagen type IV. It has been cross adsorbed against collagen types I, II, III, V and VI, resulting in <10% cross-reactivity. It may cross-react with collagen type IV from other species.

Collagen is located in the extracellular matrix of connective tissues. It is part of the interacting network of proteoglycans and proteins that provides a structural framework for both soft and calcified connective tissues. Collagen Type IV forms a two-dimensional reticulum and is a major component of the basal lamina.

Goat anti human collagen IV has been successfully employed for the demonstration of vasculature in developing rat pups using immunofluorescence techniques (Kermorvant-Duchemin *et al.* 2013).

#### References

- 1. Kermorvant-Duchemin, E. *et al.* (2013) Neonatal hyperglycemia inhibits angiogenesis and induces inflammation and neuronal degeneration in the retina. <u>PLoS One. 8(11): e79545.</u>
- 2. Dominguez, E. *et al.* (2015) Experimental Branch Retinal Vein Occlusion Induces Upstream Pericyte Loss and Vascular Destabilization. PLoS One. 10 (7): e0132644.
- 3. Rajapaksa, K.S. *et al.* (2016) Preclinical Safety Profile of a Depleting Antibody against CRTh2 for Asthma: Well Tolerated Despite Unexpected CRTh2 Expression on Vascular Pericytes in the Central Nervous System and Gastric Mucosa. <u>Toxicol Sci. Apr 21. pii: kfw067. [Epub ahead of print]</u>
- 4. Trouillet, A. *et al.* (2017) Col4a1 mutation generates vascular abnormalities correlated with neuronal damage in a mouse model of HANAC syndrome. <u>Neurobiol Dis. 100: 52-61.</u>

#### 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.

Shelf Life	Please see label for expiry date.
Health And Safety Information	Material Safety Datasheet documentation #10123 available at: 10123: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10123.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10123.pdf</a>
Regulatory	For research purposes only

## Related Products

# **Recommended Secondary Antibodies**

Rabbit Anti Goat IgG (Fc) (STAR122...) FITC, HRP

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