

Datasheet: AHP1848

Description:	RABBIT ANTI HUMAN COLLAGEN III
Specificity:	COLLAGEN III
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	50 µg

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 - Paraffin (1)	■			2.5ug/ml
ELISA	■			1/5000 - 1/10000
Western Blotting (2)	■			1/5000 - 1/10000

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.

(1) **This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.**

(2) **This product is suitable for use in Western Blotting under non-reducing conditions.**

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

Antiserum Preparation Antisera to human Collagen III were raised by repeated immunisation of rabbits with highly purified antigen. Purified IgG prepared from whole serum by affinity chromatography.

Buffer Solution	pH8.0, 0.125M Sodium Borate, 0.075M Sodium Chloride, 0.005M EDTA
Preservative Stabilisers	0.01% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	Synthetic peptide corresponding to Human collagen III.

**External Database
Links**

UniProt:

[P02461](#)

[Related reagents](#)

Entrez Gene:

[1281](#)

COL3A1

[Related reagents](#)

Specificity

Rabbit anti Human Collagen III antibody recognizes human collagen III (COL3A1), a secreted protein of 1466 amino acids belonging to the fibrillar collagen family.

Collagens are highly conserved across species and are vital in the formation of connective tissues. Collagen III is found in most soft connective tissues along with Collagen I.

Defects in collagen III are associated with Ehlers-Danlos syndrome type 3 and type 4 and with abdominal aortic aneurysm ([Treska et al. 2000](#)).

**Histology Positive
Control Tissue**

Human kidney

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.

Shelf Life

18 months from date of despatch.

**Health And Safety
Information**

Material Safety Datasheet documentation #10077 available at:

10077: <https://www.bio-rad-antibodies.com/uploads/MSDS/10077.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR54...) [HRP](#)

Recommended Useful Reagents

[HISTAR DETECTION SYSTEM \(STAR3000A\)](#)

[ANTIGEN RETRIEVAL BUFFER, pH4.8 \(BUF027A\)](#)

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

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