

Anti-Collagen III antibody [FH-7A] ab6310

★★★★★ [14 Abreviews](#) [162 References](#) [3 图像](#)

概述

产品名称	Anti-Collagen III抗体[FH-7A]
描述	小鼠单克隆抗体[FH-7A] to Collagen III
宿主	Mouse
特异性	ab6310 specifically recognizes collagen type III from human and rat origin. It does not recognize collagen types I, II, IV, V, VI and X.
经测试应用	适用于: IHC-Fr, IHC-P, WB, ELISA, Dot blot, Indirect ELISA, ICC/IF
种属反应性	与反应: Rat, Human
免疫原	Full length native protein (purified) (Human).
阳性对照	IHC-P: Rat skin sections. IHC-Fr: Rat skin sections.
常规说明	Type III collagen, [α1(III)] ₃ , is an approx. 300 kDa molecule, found predominantly in skin, blood vessels, liver, placenta, tongue, and thymus. Collagen type III forms cofibrils with type I and/or V collagens in a number of tissues of mesenchymal origin, such as skin, tendon, ligaments, and bone. This collagen type is involved, directly or indirectly in several genetic diseases, including Ehlers-Danlos type IV disease.

This product was changed from ascites to tissue culture supernatant on 17 May 2019. Please note that the dilutions may need to be adjusted accordingly. If you have any questions, please do not hesitate to contact our scientific support team.

The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.

存储溶液	Preservative: 0.097% Sodium azide Constituent: Whole serum
纯度	Tissue culture supernatant
克隆	单克隆
克隆编号	FH-7A
同种型	IgG1

应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab6310于以下的经测试应用

“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

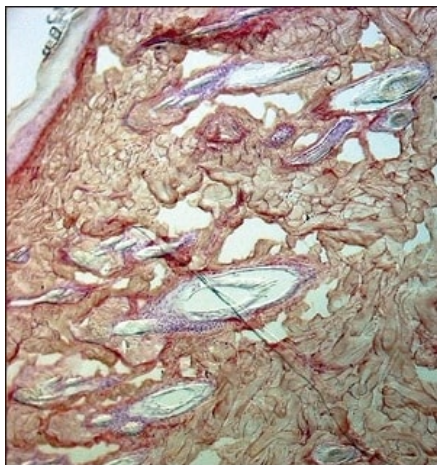
应用	Ab评论	说明
IHC-Fr		Use at an assay dependent concentration.
IHC-P	★★★★★ (10)	Use at an assay dependent concentration.
WB	★★★★★ (1)	Use at an assay dependent concentration.
ELISA	★★★★☆ (2)	Use at an assay dependent concentration.
Dot blot		Use at an assay dependent concentration.
Indirect ELISA		Use at an assay dependent concentration.
ICC/IF		Use at an assay dependent concentration. PubMed: 25136258

靶标

功能	Collagen type III occurs in most soft connective tissues along with type I collagen.
疾病相关	<p>Defects in COL3A1 are a cause of Ehlers-Danlos syndrome type 3 (EDS3) [MIM:130020]; also known as benign hypermobility syndrome. EDS is a connective tissue disorder characterized by hyperextensible skin, atrophic cutaneous scars due to tissue fragility and joint hyperlaxity. EDS3 is a form of Ehlers-Danlos syndrome characterized by marked joint hyperextensibility without skeletal deformity.</p> <p>Defects in COL3A1 are the cause of Ehlers-Danlos syndrome type 4 (EDS4) [MIM:130050]. EDS is a connective tissue disorder characterized by hyperextensible skin, atrophic cutaneous scars due to tissue fragility and joint hyperlaxity. EDS4 is the most severe form of the disease. It is characterized by the joint and dermal manifestations as in other forms of the syndrome, characteristic facial features (acrogeria) in most patients, and by proneness to spontaneous rupture of bowel and large arteries. The vascular complications may affect all anatomical areas.</p> <p>Defects in COL3A1 are a cause of susceptibility to aortic aneurysm abdominal (AAA) [MIM:100070]. AAA is a common multifactorial disorder characterized by permanent dilation of the abdominal aorta, usually due to degenerative changes in the aortic wall. Histologically, AAA is characterized by signs of chronic inflammation, destructive remodeling of the extracellular matrix, and depletion of vascular smooth muscle cells.</p>

序列相似性	<p>Belongs to the fibrillar collagen family.</p> <p>Contains 1 fibrillar collagen NC1 domain.</p> <p>Contains 1 VWFC domain.</p>
翻译后修饰	<p>Proline residues at the third position of the tripeptide repeating unit (G-X-Y) are hydroxylated in some or all of the chains.</p> <p>O-linked glycan consists of a Glc-Gal disaccharide bound to the oxygen atom of a post-translationally added hydroxyl group.</p>
细胞定位	<p>Secreted > extracellular space > extracellular matrix.</p>

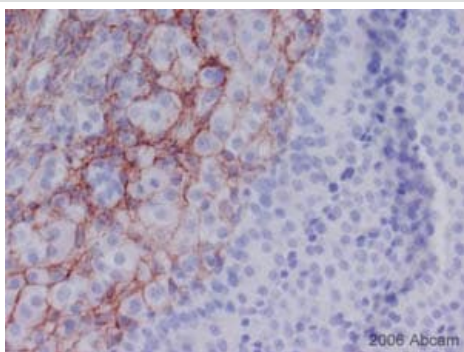
图片



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Collagen III antibody [FH-7A] (ab6310)

Staining of formalin-fixed, paraffin-embedded rat skin with 1:4,000 ab6310 using biotin/ExtrAvidin®-Peroxidase.

This image was generated using the ascites version of the product.

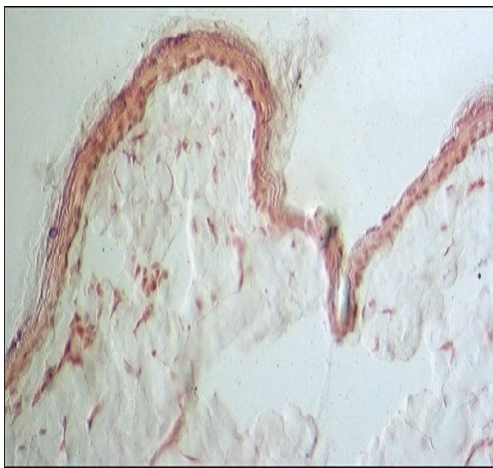


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Collagen III antibody [FH-7A] (ab6310)

This image is courtesy of an Abreview submitted by Birgitta Weijdegard

ab6310 at 1/600 dilution staining preovulatory follicle and whole ovary tissue sections by Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections). Antigens were retrieved by boiling with an antigen unmasking solution for 20 min at 120°C in an autoclave and then cooled down in water for 5 minutes. The tissue sections were formaldehyde fixed and incubated with the antibody for 1 hour. An alkaline phosphatase conjugated antibody was used as the secondary. The image shows a section of whole preovulatory follicle. Staining for collagen type III is seen in the theca interna cell layer. No staining in the granulosa cells.

This image was generated using the ascites version of the product.



Immunohistochemistry (Frozen sections) - Anti-Collagen III antibody [FH-7A] (ab6310)

Staining of frozen rat skin sections with 1:8,000 ab6310 using biotin/ExtrAvidin®-Peroxidase.

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