

Anti-Collagen I + Collagen III antibody ab24135

1 References

Overview

Product name	Anti-Collagen I + Collagen III antibody
Description	Rabbit polyclonal to Collagen I + Collagen III
Host species	Rabbit
Specificity	Specificity is measured by ELISA using pure pig collagen types I and III. No binding to pig serum proteins is seen at similar dilutions of the antibody. No cross reactivity seen against pig basement membrane collagens type IV and V in immunostaining.
Tested applications	Suitable for: IHC-Fr, ELISA
Species reactivity	Reacts with: Pig
Immunogen	Full length native collagen type I and III from pig skin.
Positive control	Pig kidney and skin. Cultured porcine cells.
General notes	<p>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.</p> <p>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</p>

Properties

Form	Lyophilized:Reconstitute with 1ml of distilled water and add preservative if required.
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term.
Storage buffer	<p>pH: 8.00</p> <p>Constituents: 0.16% Sodium phosphate, 0.38% Sodium borate, 0.87% Sodium chloride, 1% Dextran, 1% Mannitol</p>
Purity	Immunogen affinity purified
Purification notes	Pooled antisera are passed over DEAE-cellulose to produce an IgG enriched fraction. Antibodies specific to type I and type III pig collagen are then immobilised by affinity chromatography and eluted with an acidic buffer. The final purification steps are neutralisation, dialysis and lyophilisation.

Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab24135 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-Fr		1/20.
ELISA		1/3000.

Target

Relevance Collagen I is a fibrillar collagen found in most connective tissues, and the only component of the collagen found in cartilage. Mutations in this gene are associated with osteogenesis imperfecta, Ehlers Danlos syndrome, and idiopathic osteoporosis. Reciprocal translocations between chromosomes 17 and 22, where this gene and the gene for platelet derived growth factor beta are located, are associated with a particular type of skin tumor called dermatofibrosarcoma protuberans, resulting from unregulated expression of the growth factor. Two transcripts, resulting from the use of alternate polyadenylation signals, have been identified for this gene. Collagen III is a fibrillar collagen that is found in extensible connective tissues such as skin, lung, and the vascular system, frequently in association with Collagen I. Mutations in this gene are associated with Ehlers Danlos syndrome type IV, and with aortic and arterial aneurysms. Although alternate transcripts have been detected for this gene, they are the result of mutations; these mutations alter splicing, often leading to the exclusion of multiple exons.

Cellular localization Secreted

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