

BP8034**Polyclonal Antibody to Procollagen Type III - Purified**

Alternate names:	Collagen, Pro-Collagen
Quantity:	0.1 ml
Concentration:	1.0 mg/ml
Background:	Collagens consist in a family of highly specialized glycoproteins of which at least 16 genetically distinct types are known to date. The basal unit of a collagen molecule consists in a triple-helical structure formed by 3 alpha-chains. Predominant amino acids are glycine, proline and hydroxyproline. Regularly also lysines and hydroxylysines occur, which are responsible for cross-linkage and glycosylation of the protein chains. Different composition of alpha-chains and different glycosylation contribute to the high variability of collagens in different tissues and organs. Type III collagen is an alpha1(III)-trimer, MW 95 kDa, which forms 67 nm cross-banded fibrils. Typically it can be observed in skin, cartilage and vitreous body.
Host:	Rabbit
Immunogen:	Purified Human Procollagen type III.
Format:	State: Lyophilized purified Ig fraction. Purification: Affinity Chromatography. Buffer System: PBS without BSA or preservatives. Reconstitution: Restore with 0.5 ml distilled water.
Applications:	RIA. ELISA: 1/100-1/200. Immunofluorescence (indirect, 1/40 on Frozen tissues). Immunohistochemistry on Frozen and Paraffin Embedded Tissue Sections: 1/500. <i>Pretreatment:</i> After removing Paraffin pre-treat with 0.2% Hyaluronidase (approx. 300 U/mg) in TBS, 15 min at 37°C, then block unspecific binding with blocking serum or 3% BSA in TBS and perform blocking of endogen Peroxidase with 1% H2O2 in TBS, if necessary. <i>Recommended Incubation Time:</i> 60 min at room temperature or overnight at 2-8°C. <i>Positive Control:</i> Human or Bovine Skin and Liver. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	Recognizes Human and bovine Pro-Collagen Type III (100%). Human and Bovine Collagene Type I < 0.1% in RIA at 1/200 dilution. Reacts also with Porcine Pro-Collagen Type III. Species: Human, Bovine and Porcine. Other species not tested.
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	1. Trinchet JC, Hartmann DJ, Pateron D, Munz-Gotheil C, Callard P, Ville G, et al. Serum type I collagen and N-terminal peptide of type III procollagen in patients with