

BP8001**Polyclonal Antibody to Collagen type I - Purified****Alternate names:**

Alpha-1 type I collagen, Alpha-2 type I collagen, COL1A1, COL1A2

Quantity:

0.5 ml

Concentration:

app. 1 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 tripel-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 I collagen (95 kDa) is found in bone, cornea, skin and tendon.

Uniprot ID:[P02457](#)**NCBI:**[9031](#)**Host:**

Rabbit

Immunogen:

Purified collagen type I from chicken skin

Format:**State:** Lyophilized purified IgG fraction**Purification:** Ion Exchange Chromatography**Reconstitution:** Restore by adding 0.5 ml aqua destilled, for further dilution use appropriate antibody diluent.**Applications:****ELISA.****RIA:** 1/1000.**Immunofluorescence:** 1/40-1/80.**Immunohistochemistry on Frozen Sections.****Immunohistochemistry on Paraffin Sections:** 1/500-1/1000.*Incubation time:* 60 min at RT or 2-8°C overnight.*Positive Control:* Chicken skin.*Pretreatment:* After de-waxing the tissue slices they are treated with 0.2% hyaluronidase (app. 300 U/mg) in TBS 15 min at 37°C. There after non-specific binding is blocked by blocking serum or 3% BSA in TBS. For peroxidase systems blocking with 1% peroxide solution in TBS for 30 min at RT is recommended.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:

Chicken Collagen type I: 100%.

Chicken Collagen type III and IV: < 0.1 %.

Collagen type I Human, Mouse, Rat, Cattle: < 0.1 %.

Chicken Fibronectin: < 0.1 % RIA at 1/1000 dilution.

Storage:

Store 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.

Product Citations:**Purchased from Acris:**

1. Kerje S, Hellman U, Do L, Larsson G, Kämpe O, Engström-Laurent A, et al. Is low molecular weight hyaluronan an early indicator of disease in avian systemic sclerosis? *Connect Tissue Res.* 2016 Sep;57(5):337-46. doi: 10.1080/03008207.2016.1182997. Epub 2016 May 2. PubMed PMID: 27135250.