

Product datasheet for **BP8001**

Collagen type I Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IF, IHC, R
Recommended Dilution:	ELISA. RIA: 1/1000. Immunofluorescence: 1/40-1/80. Immunohistochemistry on Frozen Sections. Immunohistochemistry on Paraffin Sections: 1/500-1/1000. <i>Incubation time:</i> 60 min at RT or 2-8°C overnight. <i>Positive Control:</i> Chicken skin. <i>Pretreatment:</i> 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.
Reactivity:	Chicken
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Purified collagen type I from chicken skin
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.
Formulation:	State: Purified State: Lyophilized purified IgG fraction
Reconstitution Method:	Restore by adding 0.5 ml aqua distilled, for further dilution use appropriate antibody diluent.
Concentration:	lot specific
Purification:	Ion Exchange Chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.



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Stability: Shelf life: one year from despatch.

Database Link: [P02457](#)

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

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