

Product datasheet for **BP8006S**

Collagen I (COL1A1) Rabbit Polyclonal Antibody

Product data:

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|------------------------|--|
| Product Type: | Primary Antibodies |
| Applications: | ELISA, IF, IHC, R |
| Recommended Dilution: | ELISA: > 1/200. RIA. Immunofluorescence: 1/80. Immunohistochemistry on Paraffin Sections: 1/200-1/600 for 60 min at RT or 2-8°C over night. <i>Positive Control:</i> Tuna Fish 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: | Bonito, Fish, Tuna |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Immunogen: | Purified Collagen type I from Tuna Fish skin |
| Specificity: | This antibody is specific for Fish Collagen type I (Tuna Fish). |
| Formulation: | Phosphate Buffered solution State: Purified State: Lyophilized purified Ig fraction Stabilizer: None Preservative: None |
| Reconstitution Method: | Restore with 0.1 ml distilled water, for further dilution use appropriate antibody diluent |
| Concentration: | ~1 mg/ml (after reconstitution) |
| Purification: | Affinity 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. |
| Stability: | Shelf life: one year from despatch. |



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Gene Name: collagen type I alpha 1

Database Link: [Entrez Gene 1277 Human P02452](#)

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.

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

Protein Families: Druggable Genome

Protein Pathways: ECM-receptor interaction, Focal adhesion