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Product datasheet for BP8006

Collagen I (COL1A1) Rabbit Polyclonal Antibody

Product data:

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. *Positive Control:* Tuna Fish 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.
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 cosists in a tripel-helical structure formed by 3 alpha-chains. Predominant amino acids are glycine, proline and hydroxproline. 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