

Product datasheet for **BP8000S**

COL1A1 Rabbit Polyclonal Antibody

Product data:

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| Product Type: | Primary Antibodies |
| Applications: | ELISA, IF, IHC, R |
| Recommended Dilution: | RIA. ELISA: 1/400 (OD \geq 500). Immunoblotting (Western blot). Immunofluorescence (1/80). Immunohistochemistry on Paraffin embedded tissues: 1/100-1/500. Pretreatment: After de-waxing the tissue slices are treated with 0.2% hyaluronidase (app. 300 U/mg) in TBS 15 min at 37°C. Thereafter 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. Incubation Time: 60 min at RT or 2-8°C overnight. Positive Control: Bovine skin. |
| Reactivity: | Bovine |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Immunogen: | Purified Collagen type I from Bovine skin. |
| Specificity: | Bovine Collagen type I: 100%. Bovine Collagen II, IX, XI: < 0.1% Sheep Collagen type I: 50% (IHC estimated) Bovine Fibronectin: < 0.1% Human Collagen type I: < 2% Chicken Collagen type I: < 0.1% (Estimates except Sheep Collagen I from solid phase RIA at dilution 1/500). |

Even though cross-reactivity with Human is low in RIA, the antibody has to be expected to be cross-reactive to Human Collagen type I as well as to Pig Collagen type I in IHC.



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| Formulation: | PBS without BSA and preservatives State: Purified State: Lyophilized purified Ig fraction Stabilizer: None Preservative: None |
| Reconstitution Method: | Restore with 0.1 ml (BP8000S) or 0.5 ml (BP8000) distilled water. For further dilution use appropriate antibody diluent. |
| Concentration: | ~1.0 mg/ml (after reconstitution) |
| Purification: | Affinity Chromatography |
| Conjugation: | Unconjugated |
| Storage: | Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing. |
| Stability: | Shelf life: one year from despatch. |
| Database Link: | Entrez Gene 282187 Bovine P02453 |
| Background: | <p>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.</p> <p>Type I Collagen (95 kDa) usually exists as a heterotrimer formed by alpha 1(I) and alpha 2(I) chains and is found in bone, cornea, skin and tendon. In foetal tissues also homotrimers of alpha-1(I) are found, but they are not constituents of normal adult tissues.</p> |
| Synonyms: | COL1A1, COL1A2, Alpha-1 type I collagen, Alpha-2 type I collagen |