

## Product datasheet for **BP8000**

### COL1A1 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IF, IHC, R
Recommended Dilution:	<b>RIA.</b> <b>ELISA:</b> 1/400 (OD $\geq$ 500). <b>Immunoblotting (Western blot).</b> <b>Immunofluorescence</b> (1/80). <b>Immunohistochemistry on Paraffin embedded tissues:</b> 1/100-1/500. <b>Pretreatment:</b> 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. <b>Incubation Time:</b> 60 min at RT or 2-8°C overnight. <b>Positive Control:</b> 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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<b>Formulation:</b>	PBS without BSA and preservatives State: Purified State: Lyophilized purified Ig fraction Stabilizer: None Preservative: None
<b>Reconstitution Method:</b>	Restore with 0.1 ml (BP8000S) or 0.5 ml (BP8000) distilled water. For further dilution use appropriate antibody diluent.
<b>Concentration:</b>	~1.0 mg/ml (after reconstitution)
<b>Purification:</b>	Affinity Chromatography
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	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.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>Database Link:</b>	<a href="#">Entrez Gene 282187 Bovine P02453</a>
<b>Background:</b>	<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>
<b>Synonyms:</b>	COL1A1, COL1A2, Alpha-1 type I collagen, Alpha-2 type I collagen