

Product datasheet for **BP8028**

Collagen I (COL1A1) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IF, IHC, R
Recommended Dilution:	RIA. ELISA: 1/200 (OD ≥ 500). Immunofluorescence Assays: 1/80. Immunohistochemistry on Paraffin Sections: 1/200-1/600. 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. Incubation Time: 60 min at RT or 2-8°C over night. Positive Control: Human skin.
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Purified Collagen type I from Human skin.
Specificity:	Human Collagen type I: 100% Collagen type II and IV: < 0.1% Collagen type III and V: < 1.0% Human Fibronectin: < 0.1%.
Formulation:	Phosphate buffered solution, no BSA and preservative added. State: Purified State: Lyophilized purified Ig fraction
Reconstitution Method:	Restore with 0.1 ml (Cat.-No BP8028S) or 0.5 ml (Cat.-No BP8028) distilled water.
Concentration:	~1.0 mg/ml (after reconstitution)
Purification:	Affinity Chromatography
Conjugation:	Unconjugated



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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.
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 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
Protein Families:	Druggable Genome
Protein Pathways:	ECM-receptor interaction, Focal adhesion