

Product datasheet for **SP2175P**

Collagen I (COL1A1) Goat Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IHC
Recommended Dilution:	Immunohistochemistry on Frozen Sections (1/10-1/20). ELISA.
Reactivity:	Human
Host:	Goat
Clonality:	Polyclonal
Immunogen:	Human type 1 Collagen
Specificity:	This antibody recognizes Human Type 1 Collagen. It has been cross-adsorbed against Collagen types II, III, IV, V and VI. Results from ELISA demonstrate < 10% cross-reactivity with other Collagen types.
Formulation:	Borate buffered saline State: Aff - Purified State: Liquid purified Ig fraction Stabilizer: None Preservative: None
Concentration:	lot specific
Purification:	Affinity Chromatography
Conjugation:	Unconjugated
Storage:	Upon receipt, store undiluted (in aliquots) at -20°C. 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



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Background:	Collagens are highly conserved throughout evolution and are characterised by an uninterrupted "Glycine X Y" triplet repeat that is a necessary part of the triple helical structure. Type I collagen (95 kDa) is found in bone, cornea, skin and tendon. Mutations in the encoding gene are associated with osteogenesis imperfecta, Ehlers Danlos syndrome, and idiopathic osteoporosis. Reciprocal translocations between chromosomes 17 and 22, where this gene and the gene for Platelet-derived growth factor beta are located, are associated with a particular type of skin tumor called dermatofibrosarcoma protuberans, resulting from unregulated expression of the growth factor.
Synonyms:	COL1A1, COL1A2, Alpha-1 type I collagen, Alpha-2 type I collagen
Protein Families:	Druggable Genome
Protein Pathways:	ECM-receptor interaction, Focal adhesion