

## Product datasheet for **SP2175B**

### Collagen I (COL1A1) Goat Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	ELISA
Recommended Dilution:	ELISA: 1:200 - 1:2000.
Reactivity:	Human
Host:	Goat
Clonality:	Polyclonal
Immunogen:	Human type 1 collagen
Specificity:	This antibody recognises Type 1 collagen. This antibody has been cross-adsorbed against collagen types II, III, IV, V and VI. Results from ELISA demonstrate less than 10% cross-reactivity with other collagen types.
Formulation:	PBS containing 0.09% Sodium Azide Label: Biotin State: Liquid purified IgG
Concentration:	lot specific
Purification:	Affinity chromatography
Conjugation:	Biotin
Storage:	Store the antibody 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.
Gene Name:	collagen type I alpha 1
Database Link:	<a href="#">Entrez Gene 1277 Human P02452</a>



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<b>Background:</b>	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.
<b>Synonyms:</b>	COL1A1, COL1A2, Alpha-1 type I collagen, Alpha-2 type I collagen
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	ECM-receptor interaction, Focal adhesion