



# Anti-Collagen Type I polyclonal antibody (DPAB1585)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Specificity</b>	Specific for Rat Collagen Type I. Does not cross-react with Rat Collagen Type III and Rat, Elastin. Does not cross-react with Collagen Type I from human and chicken sources. Cross-reacts with mouse Collagen Type I when tested by ELISA and IHC but does not
<b>Immunogen</b>	Rat collagen Type I extracted and purified from rat skin
<b>Isotype</b>	IgG
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	Rat
<b>Purification</b>	Column chromatography
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	For immunostaining of extra or intracellular components in light microscopy. For the quantitation of Collagen Type II in biological fluids or in culture supernatants. IFA (with fluorescein anti-rabbit IgG conjugate): use diluted at >1:80 on frozen rat tissues. IHC(p) (immunoperoxidase technique): use diluted at >1:500 on fixed paraffin-embedded rat tissues. ELISA: use diluted at >1:200 (OD>500) Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.
<b>Format</b>	Purified, Lyophilized Reconstitute with 0.5ml deionized water
<b>Concentration</b>	Not applicable
<b>Size</b>	0.5 ml
<b>Preservative</b>	None

**Storage**

Lyophilized: Short-term (up to 24 months) store at 2-8°C. Long term store at -20°C.

Reconstituted: Aliquot and store (up to 6 months) at -20°C. Avoid multiple freeze/thaw cycles.

---

## BACKGROUND

**Introduction**

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.

---

**Keywords**

Alpha 1 type I collagen; Alpha 2 type I collagen; COL1A1; COL1A2; Collagen I alpha 1 polypeptide; Collagen I alpha 2 polypeptide; Collagen Of Skin Tendon And Bone; Collagen Type 1; Collagen type I alpha 1; Collagen type I alpha 2; OI4; Osteogenesis Imperfecta Type IV; Pro alpha 1(I) collagen; Type I procollagen; Col1a1; COLIA1; collagen alpha-1(I) chain; alpha-1 type I collagen; collagen, type 1, alpha 1; procollagen type I, alpha 1; procollagen, type 1, alpha 1; Col1a2; collagen alpha-2(I) chain; procollagen, type I, alpha 2; collagen I, alpha-2 polypeptide; collagen of skin, tendon and bone, alpha-2 chain; alpha 2(I)-collagen; Collagen, Type I; CELLAGEN(TM) BEADS; CELLAGEN(TM) SOLUTION AC-3; CELLAGEN(TM) SOLUTION AC-5; CELLAGEN(TM) SOLUTION EMEM; CollagenTypeIII; CollagenTypeVII; CollagenTypeVI; Recombinant Human Like Collagen; chicken Collagen II; C00211; fish collagen peptide

---