

**RA002****Bovine Collagen type I****Alternate names:**

Alpha-1 type I collagen, Alpha-2 type I collagen, COL1A1, COL1A2

**Quantity:**

0.5 mg

**Concentration:**

1.0 mg/ml (by dry weight)

**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.

**Uniprot ID:**[P02453](#)**NCBI:**[NP\\_001029211](#)**GeneID:**[282187](#)**Species:**

Bovine

**Source:**

Placenta

**Format:****State:** Liquid (sterile filtered) purified fraction**Purity:** >98% Chromatographically and Immunologically pure**Buffer System:** 0.5 M Acetic Acid, pH 4.5**Preservatives:** 0.01% Sodium Azide**Stabilizers:** None**Applications:**

Suitable for use as a Control or standard in indirect trapping ELISA for quantitation of antigen in serum using a standard curve, for Immunoprecipitation and for Western blotting.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

**Description:**

This antigen reacts with anti-Collagen Type I antibodies.

Reaction with anti-Collagen II, III, IV, V or VI antibodies is negligible (typically less than 1% cross reactivity was detected by ELISA).

**Storage:**

Store undiluted at 2-8°C.

Dilute only prior to immediate use.

Shelf life: 6 months from despatch.