

## Product datasheet for **RA003**

### Collagen type II alpha 1 chain (Adult Knee Cartilage) Human Protein

#### Product data:

Product Type:	Native Proteins
Description:	Collagen type II alpha 1 chain (Adult Knee Cartilage) human protein, 0.1 mg
Species:	Human
Protein Source:	Cartilage
Concentration:	lot specific
Purity:	>98% Chromatographically and immunologically pure.
Buffer:	State: Liquid (sterile filtered) purified Ig fraction. Buffer System: 0.5M Acetic Acid containing 0.01% Sodium Azide as preservative.
Preparation:	Liquid (sterile filtered) purified Ig fraction.
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
Protein Description:	This protein has been prepared from adult human knee cartilage and is free from other collagens, human serum proteins and non-collagen extracellular matrix proteins. This product reacts with anti-Collagen Type II. Reaction with anti-Collagen I, III, IV, V or VI is negligible (typically less than 1% cross reactivity was detected by ELISA).
Storage:	Store vial at 2-8°C prior to opening. This product is stable 2-8°C as an undiluted liquid. Dilute only prior to immediate use.
Stability:	Shelf life: one year from despatch.
RefSeq:	<a href="#">NP_001835</a>
Locus ID:	1280
Cytogenetics:	12q13.11
Synonyms:	ANFH; AOM; COL11A3; SEDC; STL1



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**Summary:**

This gene encodes the alpha-1 chain of type II collagen, a fibrillar collagen found in cartilage and the vitreous humor of the eye. Mutations in this gene are associated with achondrogenesis, chondrodysplasia, early onset familial osteoarthritis, SED congenita, Langer-Saldino achondrogenesis, Kniest dysplasia, Stickler syndrome type I, and spondyloepimetaphyseal dysplasia Strudwick type. In addition, defects in processing chondrocalcin, a calcium binding protein that is the C-propeptide of this collagen molecule, are also associated with chondrodysplasia. There are two transcripts identified for this gene. [provided by RefSeq, Jul 2008]

**Protein Pathways:**

ECM-receptor interaction, Focal adhesion