

Product datasheet for **RA009**

Collagen type V Human Protein

Product data:

Product Type:	Native Proteins
Description:	Collagen type V human protein, 0.5 mg
Species:	Human
Protein Source:	Placenta
Concentration:	lot specific
Purity:	>98% This product is chromatographically and Immunologically pure.
Buffer:	State: Liquid. Buffer System: 0.5 M Acetic Acid containing 0.01% (w/v) Sodium Azide as preservative and without stabilizer.
Preparation:	Liquid.
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 product as been prepared from Human Placenta and is free from other collagens, human serum proteins and non-collagen extracellular matrix proteins. Reacts with anti-Collagen Type V. Reaction with anti-Collagen I, II, III, IV or VI is negligible (typically less than 1% cross reactivity was detected by ELISA).
Note:	Caution: No test method can provide total assurance that the hepatitis B virus, hepatitis C virus, human immunodeficiency virus, or any other infectious agents are absent. Thus, all blood products, including purified proteins derived from human blood sources, should be handled at Biosafety Level 2 as recommended by the CDCNIH manual entitled Biosafety in Microbiological and Biomedical Laboratories for potentially infectious human serum, blood specimens or proteins derived from same. Source material for the human blood product supplied has been tested for the detection of HIV antibody, Hepatitis B surface antigen, antibody to Hepatitis C, HIV 1 antigen(s), antibody to HTLV - I/II, and syphilis by FDA guidelines. All units were found to be non-reactive/negative for these tests. All human blood source material is collected in FDA licensed centers and is tested with FDA approved test kits.
Storage:	Store the antigen undiluted at 2-8°C. Dilute only prior to immediate use.
Stability:	Shelf life: six months from despatch.



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RefSeq:	<u>NP_000084</u>
Locus ID:	1289
Cytogenetics:	9q34.3
Synonyms:	COL5A1
Summary:	<p>This gene encodes an alpha chain for one of the low abundance fibrillar collagens. Fibrillar collagen molecules are trimers that can be composed of one or more types of alpha chains. Type V collagen is found in tissues containing type I collagen and appears to regulate the assembly of heterotypic fibers composed of both type I and type V collagen. This gene product is closely related to type XI collagen and it is possible that the collagen chains of types V and XI constitute a single collagen type with tissue-specific chain combinations. The encoded procollagen protein occurs commonly as the heterotrimer pro-alpha1(V)-pro-alpha1(V)-pro-alpha2(V). Mutations in this gene are associated with Ehlers-Danlos syndrome, types I and II. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, May 2013]</p>
Protein Families:	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 Pathways:	ECM-receptor interaction, Focal adhesion