

## Product datasheet for **RA007**

### Collagen type IV Human Protein

#### Product data:

Product Type:	Native Proteins
Description:	Collagen type IV human protein, 0.5 mg
Species:	Human
Protein Source:	Placenta
Concentration:	lot specific
Purity:	Chromatographically and Immunologically pure.
Buffer:	State: Liquid (sterile filtered) purified protein Buffer System: 0.5M Acetic Acid Preservative: 0.01% Sodium Azide Stabilizer: None
Preparation:	Liquid (sterile filtered) purified protein
Applications:	<b>ELISA.</b> Suitable for use as a Control or standard in indirect trapping ELISA for quantitation of antigen in serum using a standard curve. <b>Immunoprecipitation.</b> <b>Western blotting.</b>
Protein Description:	This antigen is free from other Collagens, Human serum proteins and non-Collagen extracellular matrix proteins and reacts with anti-Collagen Type IV. Reaction with anti-Collagen I, II, III, V or VI is negligible (typically less than 1% cross reactivity was detected by ELISA).



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<b>Note:</b>	<p>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 <u>Biosafety in Microbiological and Biomedical Laboratories</u> for potentially infectious human serum, blood specimens or proteins derived from same.</p> <p>Source material for the human blood product supplied to your facility 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.</p>
<b>Storage:</b>	<p>Store vial at 2-8°C prior to opening.</p> <p>This product is stable 2-8°C as an undiluted liquid.</p> <p>Dilute only prior to immediate use.</p>
<b>Stability:</b>	Shelf life: 6 months from despatch.
<b>RefSeq:</b>	<u>NP_001290039</u>
<b>Locus ID:</b>	1282
<b>Cytogenetics:</b>	13q34
<b>Synonyms:</b>	COL4A1
<b>Summary:</b>	<p>This gene encodes a type IV collagen alpha protein. Type IV collagen proteins are integral components of basement membranes. This gene shares a bidirectional promoter with a paralogous gene on the opposite strand. The protein consists of an amino-terminal 7S domain, a triple-helix forming collagenous domain, and a carboxy-terminal non-collagenous domain. It functions as part of a heterotrimer and interacts with other extracellular matrix components such as perlecan, proteoglycans, and laminins. In addition, proteolytic cleavage of the non-collagenous carboxy-terminal domain results in a biologically active fragment known as arresten, which has anti-angiogenic and tumor suppressor properties. Mutations in this gene cause porencephaly, cerebrovascular disease, and renal and muscular defects. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2014]</p>
<b>Protein Families:</b>	<p><b>ELISA.</b></p> <p>Suitable for use as a Control or standard in indirect trapping ELISA for quantitation of antigen in serum using a standard curve.</p> <p><b>Immunoprecipitation.</b></p> <p><b>Western blotting.</b></p>
<b>Protein Pathways:</b>	ECM-receptor interaction, Focal adhesion, Pathways in cancer, Small cell lung cancer