

## Product datasheet

# Native Human Collagen V protein ab7537

### Description

<b>Product name</b>	Native Human Collagen V protein
<b>Biological activity</b>	Collagen taken from human species.
<b>Expression system</b>	Native
<b>Accession</b>	<b><u>P20908</u></b>
<b>Protein length</b>	Full length protein
<b>Animal free</b>	No
<b>Nature</b>	Native
<b>Species</b>	Human
<b>Predicted molecular weight</b>	184 kDa

### Specifications

Our **Abpromise guarantee** covers the use of **ab7537** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	<p>SDS-PAGE</p> <p>Western blot</p> <p>Immunoprecipitation</p> <p>ELISA</p>
<b>Form</b>	Liquid
<b>Additional notes</b>	<p>This product is free from other collagens, human serum proteins and non-collagen extracellular matrix proteins. This product 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).</p> <p>Collagen taken from human species.</p> <p>Denaturing and reducing conditions will greatly diminish reactivity and selectivity of this protein.</p> <p><b>Purity:</b> Human Collagen Type V has been prepared from Human Placenta and is chromatographically and immunologically pure.</p>

### Preparation and Storage

<b>Stability and Storage</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
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Preservative: 0.01% Sodium azide

Constituent: 0.06% Acetic acid

## General Info

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<b>Function</b>	Type V collagen is a member of group I collagen (fibrillar forming collagen). It is a minor connective tissue component of nearly ubiquitous distribution. Type V collagen binds to DNA, heparan sulfate, thrombospondin, heparin, and insulin.
<b>Involvement in disease</b>	Ehlers-Danlos syndrome 1 Ehlers-Danlos syndrome 2
<b>Sequence similarities</b>	Belongs to the fibrillar collagen family. Contains 1 fibrillar collagen NC1 domain. Contains 1 laminin G-like domain.
<b>Domain</b>	The C-terminal propeptide, also known as COLFI domain, have crucial roles in tissue growth and repair by controlling both the intracellular assembly of procollagen molecules and the extracellular assembly of collagen fibrils. It binds a calcium ion which is essential for its function.
<b>Post-translational modifications</b>	Prolines at the third position of the tripeptide repeating unit (G-X-Y) are hydroxylated in some or all of the chains. Sulfated on 40% of tyrosines.
<b>Cellular localization</b>	Secreted > extracellular space > extracellular matrix.

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**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

## Our Abpromise to you: Quality guaranteed and expert technical support

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- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
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If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

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