

## Product datasheet

# Natural Human Collagen V protein ab7537

### Overview

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<b>Product name</b>	Natural Human Collagen V protein
<b>Protein length</b>	Full length protein

### Description

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<b>Nature</b>	Native
<b>Source</b>	Native
<b>Amino Acid Sequence</b>	
<b>Accession</b>	<a href="#">P20908</a>
<b>Species</b>	Human
<b>Molecular weight</b>	184 kDa
<b>Additional sequence information</b>	Prepared from Human Placenta and is chromatographically and immunologically pure.

### Specifications

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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>Biological activity</b>	Collagen taken from human species.
<b>Applications</b>	Western blot Immunoprecipitation ELISA
<b>Form</b>	Liquid
<b>Additional notes</b>	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). Collagen taken from human species. Denaturing and reducing conditions will greatly diminish reactivity and selectivity of this protein.

### Preparation and Storage

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<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 -
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80°C. Avoid freeze / thaw cycle.

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.

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
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- We provide support in Chinese, English, French, German, Japanese and Spanish
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