

## Product datasheet

# Recombinant Human COL1A2 protein ab158153

1 Image

### Description

<b>Product name</b>	Recombinant Human COL1A2 protein
<b>Expression system</b>	Wheat germ
<b>Protein length</b>	Protein fragment
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Human
<b>Sequence</b>	<p>MRLLANYASQNITYHCKNSIAYMDEETGNLKKAVILQGSND</p> <p>VELVAEGNS</p> <p>RFTYTVLVDGCSKKTNEWGKTIIIEYKTNKPSRLPFLDIAPLD</p> <p>IGGADQEF FVDIGPVCFK</p>
<b>Amino acids</b>	1257 to 1366
<b>Tags</b>	GST tag N-Terminus

### Specifications

Our **Abpromise guarantee** covers the use of **ab158153** 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>ELISA</p> <p>Western blot</p>
<b>Form</b>	Liquid
<b>Additional notes</b>	

### Preparation and Storage

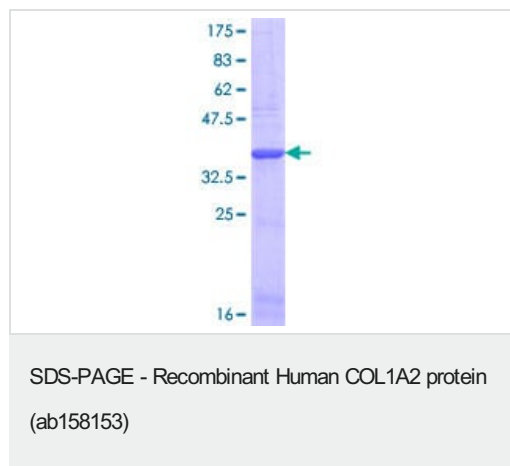
<b>Stability and Storage</b>	<p>Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.</p> <p>pH: 8.00</p> <p>Constituents: 0.31% Glutathione, 0.79% Tris HCl</p>
------------------------------	---

### General Info

## General info

<b>Function</b>	Type I collagen is a member of group I collagen (fibrillar forming collagen).
<b>Tissue specificity</b>	Forms the fibrils of tendon, ligaments and bones. In bones the fibrils are mineralized with calcium hydroxyapatite.
<b>Involvement in disease</b>	Ehlers-Danlos syndrome 7B Osteogenesis imperfecta 1 Osteogenesis imperfecta 2 Ehlers-Danlos syndrome, autosomal recessive, cardiac valvular form Osteogenesis imperfecta 3 Osteogenesis imperfecta 4 A chromosomal aberration involving COL1A2 may be a cause of lipoblastomas, which are benign tumors resulting from transformation of adipocytes, usually diagnosed in children. Translocation t(7;8)(p22;q13) with PLAG1.
<b>Sequence similarities</b>	Belongs to the fibrillar collagen family. Contains 1 fibrillar collagen NC1 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.
<b>Cellular localization</b>	Secreted > extracellular space > extracellular matrix.

## Images



ab158153 on a 12.5% SDS-PAGE stained with Coomassie Blue.

**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

- 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

- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

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.

#### **Terms and conditions**

---

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors