**Product datasheet**

**Anti-COL1A2 antibody ab96723**

---

### Overview

**Product name**
Anti-COL1A2 antibody

**Description**
Rabbit polyclonal to COL1A2

**Host species**
Rabbit

**Tested applications**
Suitable for: WB, ICC/IF

**Species reactivity**
Reacts with: Rat, Human

**Predicted to work with**
Mouse, Cow, Dog, Monkey

**Immunogen**
Recombinant protein fragment corresponding to a region within amino acids 1057 and 1339 of COL1A2 (NP_000080).

**Positive control**
WB: 293T and A431 cell lysate

**Form**
Liquid

**Storage instructions**
Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

**Storage buffer**
pH: 7.00
Preservative: 0.01% Thimerosal (merthiolate)
Constituents: 10% Glycerol, 1.21% Tris, 0.75% Glycine

**Purity**
Immunogen affinity purified

**Clonality**
Polyclonal

**Isotype**
IgG

---

### Properties

**Form**
Liquid

**Storage instructions**
Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

**Storage buffer**
pH: 7.00
Preservative: 0.01% Thimerosal (merthiolate)
Constituents: 10% Glycerol, 1.21% Tris, 0.75% Glycine

**Purity**
Immunogen affinity purified

**Clonality**
Polyclonal

**Isotype**
IgG

---

### Applications

Our Abpromise guarantee covers the use of **ab96723** in the following tested applications.

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

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
</table>
Function
Type I collagen is a member of group I collagen (fibrillar forming collagen).

Tissue specificity
Forms the fibrils of tendon, ligaments and bones. In bones the fibrils are mineralized with calcium hydroxyapatite.

Involvement in disease
- 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.

Sequence similarities
Belongs to the fibrillar collagen family.
Contains 1 fibrillar collagen NC1 domain.

Domain
The C-terminal propeptide, also known as COL1 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.

Post-translational modifications
Prolines at the third position of the tripeptide repeating unit (G-X-Y) are hydroxylated in some or all of the chains.

Cellular localization
Secreted > extracellular space > extracellular matrix.

Target

Application | Abreviews | Notes
---|---|---
ICC/IF | 1/100 - 1/200. | ---

Images

All lanes: Anti-COL1A2 antibody (ab96723) at 1/1000 dilution

Lane 1: 293T whole cell lysate
Lane 2: A431 whole cell lysate

Lysates/proteins at 30 µg per lane.

Predicted band size: 129 kDa

Western blot - Anti-COL1A2 antibody (ab96723)

7.5% SDS PAGE
Immunofluorescence analysis of COL1A2 in paraformaldehyde fixed A431 cell, using ab96723 at a 1/200 dilution. Lower image: merged with DNA probe.

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

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