**Product datasheet**

**Anti-Collagen X antibody ab58632**

⭐⭐⭐⭐⭐ 9 Abreviews  133 References  1 Image

### Overview

**Product name**  
Anti-Collagen X antibody

**Description**  
Rabbit polyclonal to Collagen X

**Host species**  
Rabbit

**Specificity**  
ab58632 recognizes type X collagen. Exhibits slight cross-reactivity with fibronectin and type II and type IX collagen. Does not cross-react with type I, type III, or type XI collagen.

**Tested applications**  
Suitable for: WB

**Species reactivity**  
Reacts with: Mouse, Rat, Rabbit, Cow, Human

**Immunogen**  
Full length native protein (purified) Type X collagen from rat chondrosarcoma cells

### Properties

**Form**  
Liquid

**Storage instructions**  

**Storage buffer**  
constituent: Whole serum

**Purity**  
Whole antiserum

**Clonality**  
Polyclonal

**Isotype**  
IgG

### Applications

Our Abpromise guarantee covers the use of ab58632 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>
<tbody>
<tr>
<td>WB</td>
<td></td>
<td>1/100 - 1/300.</td>
</tr>
</tbody>
</table>

### Target
**Function**
Type X collagen is a product of hyperthrophic chondrocytes and has been localized to presumptive mineralization zones of hyaline cartilage.

**Involvement in disease**
Defects in COL10A1 are the cause of Schmid type metaphyseal chondrodysplasia (SMCD) [MIM:156500]. SMCD is a dominantly inherited disorder of the osseous skeleton. The cardinal features of the phenotype are mild short stature, coxa vara and a waddling gait. Radiography usually shows sclerosis of the ribs, flaring of the metaphyses, and a wide irregular growth plate, especially of the knees. A variant form of SMCD is spondylometaphyseal dysplasia Japanese type. It is characterized by spinal involvement comprising mild platyspondyly, vertebral body abnormalities, and end-plate irregularity.

**Sequence similarities**
Contains 1 C1q domain.

**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.

**Images**

![Western blot - Anti-Collagen X antibody (ab58632)](image)

Anti-Collagen X antibody (ab58632) at 1/500 dilution + HT 1080 (Human fibrosarcoma) Whole Cell Lysate at 10 µg

**Secondary**
Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (ab97080) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

**Observed band size:** 66 + 64 kDa

why is the actual band size different from the predicted?

**Additional bands at:** 37 kDa, 50 kDa, 98 kDa. We are unsure as to the identity of these extra bands.

**Exposure time:** 150 seconds

The band observed at 64 kDa could potentially be a cleaved form of Collagen X due to the presence of a 18 amino acid signal peptide.

**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