

## DESCRIPTION

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|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects human Pro-Collagen II in direct ELISAs.                                                                                                                                                                                                                             |
| <b>Source</b>             | Monoclonal Mouse IgG <sub>2B</sub> Clone # 819447                                                                                                                                                                                                                           |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant                                                                                                                                                                                                                  |
| <b>Immunogen</b>          | Chinese hamster ovary cell line CHO-derived recombinant human Pro-Collagen II<br>Gln26-Arg266 and Gly957-Leu1487<br>Accession # P02458                                                                                                                                      |
| <b>Conjugate</b>          | Alexa Fluor 405<br>Excitation Wavelength: 405 nm<br>Emission Wavelength: 421 nm                                                                                                                                                                                             |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |

## APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

**ELISA** Optimal dilution of this antibody should be experimentally determined.

## PREPARATION AND STORAGE

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied                          |

## BACKGROUND

Type II collagen is an essential component of cartilage. It is essential for skeletal development and for the ability of cartilage to resist compressive forces. Type II collagen is a homotrimer of α1(II) chains. Defects in Type II collagen are the cause of numerous diseases, including chondrodysplasias and arthritis (1). This recombinant mini pro-α1(II) collagen consists of the N-terminal propeptide, 108 Gly-X-Y repeats, and the C-terminal propeptide. Proteolytic processing of the C-terminal propeptide by the procollagen C-proteinase (BMP-1) releases chondrocalcin, a calcium binding protein.

## PRODUCT SPECIFIC NOTICES

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