

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Pro-Collagen II in direct ELISAs.
Source	Monoclonal Mouse IgG _{2B} Clone # 819447
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human Pro-Collagen II Gln26-Arg266 and Gly957-Leu1487 Accession # P02458
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *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

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	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.

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