



RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

RABBIT ANTI HUMAN COLLAGEN II

With HRP-conjugated secondary antibody

Catalog No.

DS-PB-00503

Species:

Human

Isotype:

Rabbit IgG

Description

The extensive collagen family is composed of several chain types, including fibril-forming interstitial Collagens (Types I, II, III and V) and basement membrane Collagens (Type IV), each type containing multiple isoforms. Collagens are fibrous, extracellular matrix proteins with high tensile strength and are the major components of connective tissue, such as tendons and cartilage. All collagens contain a triple helix domain and frequently show lateral self-association in order to form complex connective tissues. Several collagens also play a role in cell adhesion, important for maintaining normal tissue architecture and function. In cartilage, Collagen Type II constitutes the bulk of the fibril. Sensitization with Collagen Type II induces an erosive polyarthritis in rats, mice and higher primates which can resemble rheumatoid arthritis and relapsing polychondritis.

Applications

Table Summary of antibody applications and working conditions

Options / Functions	YES	NO	Not determined	Recommended Work dilution or concentration
ELISA	•			1/500 - 1/2000
Western Blotting			•	
Immunohistology - frozen	•			1/10 - 1/50
Immunohistology - paraffin	•			1/10 - 1/50
Immunohistology - resin			•	
Immunoprecipitation			•	
Flow Cytometry			•	
Immunofluorescence staining			•	
Neutralization			•	

Note: Other applications are not tested yet. Optimal dilutions should be determined by each laboratory for each application.

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**



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Preparation

Immunogen was recombinant protein derived from human Collagen type II from cartilage. The IgG fraction was purified by affinity chromatography.

Specificity

DS-PB-00503 is specific for human Collagen type II and shows minimal binding with Collagen types I, III, IV and V. It will react with both native and heat denatured forms.

Reconstitution

Supplied as 500 µl of lyophilized purified antibody. Reconstitute with 500 µl sterile distilled water. The addition of 1% BSA and 0.1% sodium azide is recommended. Its final concentration is 1.0 mg/ml.

Please avoid freeze-thaw cycles.

Secondary Antibody Applications

Options	YES	NO	Not determined	Recommended Work dilution or concentration
Functions				
Immunoassay (ELISA, Western blot)	•			1:5000-1:10000

Storage

Store at -20°C after reconstitution. Keep it at 4°C prior to reconstitution, and minimize freezing and thawing when use.

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