



RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

MOUSE ANTI HUMAN COLLAGEN II

With HRP-conjugated secondary antibody

Catalog No.
DS-MB-01036

Species:
Human

Isotype:
Mouse IgG1

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	•			using pepsin treated samples
Western Blotting	•			1/1K - 1/2K
Immunohistology - frozen			•	
Immunohistology - paraffin			•	
Immunohistology - resin			•	
Immunoprecipitation			•	
Flow Cytometry			•	
Immunofluorescence staining	•			Suitable for use on fresh, frozen or acetone fixed material. Mild pepsin digestion is recommended to enhance 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 (cartilage specific) CNBr-cleaved collagen 2. This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with the immunogen.

Specificity

Reacts with both pepsin solubilised and CNBr-cleaved human and bovine collagen type II. Does not react with: Pig, Sheep, Mouse, Bovine, Rat, or Dog.

Reconstitution

Supplied as 100 µl of purified antibody. **Please avoid freeze-thaw cycles.**

Secondary Antibody Applications

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

Storage

Store at -20°C only. Shipped at 4°C and minimize freezing and thawing when use.

References

Wilkins, B. S. & Jones, D. B., (1995) Br. J. Haematol. 90, p.757-766.

Miller, E. J., (1972) Biochemistry 11, p.4903-4909.

Glant, T. T., (1985) Histochemistry 82, p.149-158.

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