



Polyclonal Antibody to Human Collagen type II

Technical Data Sheet

Reagent Category

Polyclonal primary antibody to Collagen Type II

PRODUCT# IMI19261E (Ready-To-Use)

PRODUCT# IMI19252E (Concentrate)

Antibody Formats Supplied

5 ml of anti Collagen type II, Ready-To-Use

0.5 ml of anti Collagen type II, Concentrate

SOURCE: Rabbit

IMMUNOGEN: Human collagen II protein

SPECIFICITY: Collagens are a family of highly characteristic fibrous proteins found in all multicellular animals. They consist of 25% of all the proteins found in mammals, so far, ten different types of collagens have been identified, the best defined are types I, II, III, and IV. Collagen types I, II, III are the fibrillar collagens found mainly in connective tissues and type I being the most common and accounts for 90% of body collagen.

REACTIVITY: This polyclonal collagen type II reacts with CNBr-cleaved human and bovine collagen type II. This antibody is useful in demonstrating the presence of collagen type II in human and bovine tissues. It is non cross-reactive with other collagens types as III IV IX and I. This antibody is suitable for use on alcohol or acetone fixed cryostat (frozen) sections. It can also be used for routinely fixed paraffin embedded sections

POSITIVE CONTROL TISSUE: Cartilage, Skin

STAINING PATTERN: Cytoplasmic staining

PRODUCT FORMATS, DILUTIONS and INCUBATIONS

This affinity purified collagen type II polyclonal rabbit antibody is provided in phosphate buffered saline pH 7.2 containing bovine serum albumin (BSA) and 0.05% sodium azide. Background staining may be observed with this antibody; To eradicate background staining; Use Innovex Background Buster Blocking solution for 5 minutes for human tissues and 30 minutes for animal tissues prior to applying this primary antibody.

5 ml of Ready-to-Use, (do not dilute). Incubate for 1-hour. This antibody best stains when formalin fixed paraffin embedded sections are retrieved.

For Background-Free and easy retrieval, Innovex Uni-Trieve (60°-70°C) universal retrieval solution is highly recommended. To retrieve with Uni-Trieve: Warm up water bath to 60°-70°C and fill a slide holding container with Uni-Trieve solution. Place slides in a slide rack and immerse slides in a vessel or a coplin jar containing Uni-Trieve solution, bring the Uni-Trieve solution and slides to 60°-70°C and let slides incubate at 60°-70°C for 30 minutes. Rinse slides with 2 quick changes of water; No cooling period is required. Proceed with immunostaining.

0.5 ml of concentrate; For 1- hour incubation dilute 1:15; Dilutions factors may be higher for longer incubation time for paraffin sections or frozen sections; Working titer should be determined by the end user. This antibody best stains when formalin fixed paraffin embedded sections are retrieved.

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The above dilutions and incubation times were derived by the use of Innovex STAT-Q and Innovex HISTO-STAT staining systems. For less sensitive detection systems these dilution factors may vary and they should be determined by the end user for specific secondary staining reagents employed.

APPLICATIONS

This antibody is intended for use in immunolocalization of collagen type II proteins in human or animal tissue by a variety of immunoassays such as Immunochemistry, ELISA, Immunoblotting and dot blotting. In immunochemistry, this antibody can be used in staining routinely fixed paraffin embedded or frozen histological sections for the purpose of qualitative localization of collagen type II proteins. This antibody can also be used for quantitative flow cytometric assays in the indirect method.

APPROPRIATE NEGATIVE CONTROL SERA for staining negative control slide

Employ purified normal rabbit sera free of immunoglobulin, concentration at 1-5 ug/ml in place of primary antibody when staining negative control slides for this antibody. Observe the same incubation time for negative control sera and primary antibody.

SPECIES REACTIVITY

This antibody reactivity with human and bovine tissues has been substantiated; other species reactivity may be characterized by the end user.

STORAGE CONDITIONS

Store in refrigerator at 2-8°C through expiration date noted on the vial.

IMPORTANT NOTE:

The interpretation of test results is the sole responsibility of the end user.

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