



Monoclonal Antibody to Human Collagen Type IV

Technical Data Sheet

Reagent Category

Monoclonal primary antibody to Collagen Type IV

Antibody Formats Supplied

- 5 ml of anti Collagen type IV, Ready-To-Use
- 0.2 ml of anti Collagen type IV, Concentrate

PRODUCT# IMI19461E (Ready-To-Use)

PRODUCT# IMI19452E (Concentrate)

SOURCE: Mouse ascites fluid

IMMUNOGLOBULIN ISOTYPE: IgG1

CLONE: COL 94

REACTIVITY

This monoclonal antibody reacts with collagen type IV that is the major constituent of the basement membranes. Collagen IV antibody stains the basement membranes in variety of tissues such as kidney, muscle, lymph nodes lund, tendon, muscle and spleen. This antibody is useful in demonstrating the presence of collagen type IV in human tissues. This antibody is suitable for use on alcohol or acetone fixed cryostat (frozen) sections. It can also be use for routinely fixed paraffin embedded sections.

POSITIVE CONTROL TISSUE: Skin

STAINING PATTERN: Cytoplasmic staining

PRODUCT FORMATS, DILUTIONS and INCUBATIONS

Affinity purified collagen type IV monoclonal mouse antibody is provided in phosphate buffered saline pH 7.2 containing bovine serum albumin (BSA) and 0.05% sodium azide.

5ml Ready-to-Use, do not dilute. Incubate for 30 minutes.

This antibody best stains when formalin fixed paraffin embedded sections are retrieved.

For Background-Free, gentle retrieval, Innovex Uni-Trieve (60°-70°C) universal retrieval solution is highly recommended. To retrieve with Uni-Trieve: Warm up a 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 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.

0.2 ml of concentrate; Dilute 1:50 to 1:100 for 30-minute incubation time. The provided dilution factors are mere guidelines, the incubation time and the working titer must be determined by the end user for the tissue and the secondary staining reagents employed.

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

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APPLICATIONS

This antibody is intended for use in immunolocalization of collagen type IV proteins in human or bovine tissues 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 IV proteins. This antibody can also be used for quantitative flow cytometric assays in the indirect method.

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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