



Monoclonal Antibody to Human Collagen type I

Technical Data Sheet

Reagent Category

Monoclonal primary antibody to Collagen Type I

Antibody Formats Supplied

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

PRODUCT# IMI19161E (Ready-To-Use)

PRODUCT# IMI19152E (Concentrate)

SOURCE: Mouse

IMMUNOGLOBULIN ISOTYPE: IgG1

IMMUNOGEN: Human collagen I protein

CLONE: cl-1

SPECIFICITY

Collagens are a family of highly characteristic fibrous proteins found in all multicellular animals. They consist 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 monoclonal, mouse collagen type I antibody is useful in demonstrating the presence of collagen type I in a variety of tissues such as skin, tendon, bone, ligaments, internal organs and cornea. It is non-cross reactive with other collagen types such as II, III, and IV and it is also non-reactive with human plasma proteins. This antibody is suitable for use on formalin fixed paraffin embedded tissue sections and cell smears. It is also suitable for alcohol or acetone fixed cryostat (frozen) sections. This antibody is also compatible for most commonly used fixatives.

POSITIVE CONTROL TISSUE: Cartilage, Skin

STAINING PATTERN: Cytoplasmic staining

PRODUCT FORMATS, DILUTIONS and INCUBATIONS

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

5 ml of Ready-to-Use, Do not dilute. Incubate for 30 minutes to 1-hour for paraffin sections and 30 minutes for frozen sections. Heat Retrieval is recommended.

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 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 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.

CONTINUED OVER



0.2 ml of concentrate; for 30 minutes to 1-hour incubation dilute 1:30-1:60. For longer incubation the titer should be determined by the end user.

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The above dilutions and incubation times were derived by the use of Innovex STAT-Q detection systems and the use of Enhancing wash buffer (see special usage guidance below). For less sensitive detection systems these dilution factors may vary and they should be determined by the end user for specific detection system employed.

APPLICATIONS

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

SPECIES REACTIVITY

This antibody reactivity with human, porcine, mouse, rat, rabbit 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.

FOR PROFESSIONAL AND RESEARCH USE ONLY