



Monoclonal Antibody to Human Collagen type VII

Technical Data Sheet

Reagent Category

Monoclonal primary antibody to Collagen Type VII

PRODUCT# IMI19761E (Ready-To-Use)

PRODUCT# IMI19752E (Concentrate)

Antibody Formats Supplied

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

0.2 ml of anti Collagen type VII, Concentrate

SOURCE: Tissue culture supernatant

IMMUNOGLOBULIN ISOTYPE: IgG1

CLONE: Collag VII

IMMUNOGEN: Human collagen VII protein from skin

REACTIVITY

Collagens are a family of highly characteristic fibrous proteins found in all multicellular animal. 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. This monoclonal collagen type VII antibody is reactive with collagen type VII carboxyterminus group and can be found in skin. This antibody is non-cross reactive with rodents' collagen type VII. and it is further non cross reactive with other collagen types such as I, II, III. This antibody is suitable for use on routinely fixed paraffin embedded sections as well as alcohol or acetone fixed cryostat (frozen) sections or cultured cell cytopins.

POSITIVE CONTROL TISSUE : Skin

STAINING PATTERN: Cytoplasmic staining

PRODUCT FORMATS, DILUTIONS and INCUBATIONS

This affinity purified collagen type VII 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 pre-titered, Ready-to-Use, (do not dilute). Incubate for 30 minute to overnight.

0.2 ml of concentrate; For 30 min. incubation dilute 1: 20-1:40; For 1 hour to overnight incubation, dilutions are higher and the working titer should be determined by the end user.

The above dilutions and incubation times were derived by the use of Innovex STAT-Q and HISTO-STAT 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.

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SPECIAL USAGE GUIDANCE

No- Pre treatment is necessary, however for best staining results, the use of **Innovex signal -Enhancing Wash buffers**. The use of **Innovex signal-Enhancing** Wash Buffers (Item#: IMI00396E for Immuno-Peroxidase staining and Item#: IMI00596E for Immuno-Alkaline-phosphatase) in place of PBS or Tris buffer for the rinsing steps in between the incubation steps greatly enhances staining signals for antigenically weak tissues or for overfixed tissues. **Its use further eliminates the need for enzyme Pre- digestion, heat application (retrieval procedure), long incubation of primaries and repetitive procedures.**

APPLICATIONS

This antibody is intended for use in immunolocalization of collagen type VII 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 VII 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 mouse sera free of immunoglobulin, concentration at 1-5ug/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.

FOR IN VITRO RESEARCH USE ONLY