



Monoclonal Antibody to Human FACTOR XIII-a *Technical Data Sheet*

Reagent Category

Monoclonal primary antibody to EGFR

PRODUCT# IMI22961E (Ready-To-Use)

PRODUCT# IMI22952E (Concentrate)

Antibody Formats Supplied

7 ml of anti human Factor XIII-a, Ready-To-Use

0.2 ml of anti human Factor XIII-a, Concentrate

SOURCE: Mouse

IMMUNOGLOBULIN ISOTYPE: Highly purified human plasma Factor XIII-a

REACTIVITY

Factor XIII is a plasma transglutaminase and it is converted to factor XIII-a when activated. Plasma Factor XIII-a consists of two A subunits joined as a dimer and connected to two B subunits (A₂B₂). Each A subunit has a Molecular weight of 75,000 kD and each B subunit has a molecular weight of 80,000 kD, making an aggregate molecular weight of the whole molecule of 320,000kD. Normal plasma contains about 20 ug/ml of factor XIII-a. Platelets also contain Factor XIII and platelets factor XIII only consist of the A subunits which is synthesized in megakaryocytes and accounts for about 50% of the total blood factor XIII activity. There is also a linear relationship between factor XIII level and platelets count. This antibody reacts with human coagulation Factor XIII-a in plasma and to platelets factor XIII. This antibody is suitable for use on routinely fixed paraffin embedded and frozen sections. For obtaining optimal staining, see special usage guidance of this data sheet.

POSITIVE CONTROL TISSUE: Vascular tumors, Placenta

STAINING PATTERN: Cytoplasmic staining

Antibody FORMATS, DILUTIONS and INCUBATIONS

This affinity purified Mouse monoclonal anti Factor XIII-a antibody is provided in phosphate buffered saline pH 7.2 with bovine serum albumin and 0.05% sodium azide. This antibody is available in:

7 ml Ready- to- Use, Incubate for 1-hour. This antibody requires retrieval when staining formalin fixed paraffin sections.

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.

0.2 ml Concentrate; Dilute 1:50 for 1-hour, the dilution factor maybe higher and should be determined by the end user for tissue,antibody incubation time and detection system employed. This antibody requires Retrieval when staining formalin fixed paraffin sections. See Above Retrieval procedure with Innovex Uni-Trieve solution using a water bath.

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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 detection system employed.

APPLICATIONS

This antibody is intended for use in staining factor XIII-a antigens in routinely fixed tissues and cell preparations. This antibody can also be used for quantitative ELISA and flow cytometric assays in the indirect method.

SPECIES REACTIVITY

This antibody is reactive with human and mouse tissues/cells has been substantiated. Other species reactivity may be determined 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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