



## Monoclonal Antibody to **ENDOTHELIAL CELLS (CD34)**

### *Technical Data Sheet*

#### Reagent Category

Monoclonal primary antibody to CD34

PRODUCT# IMI15661E (Ready-To-Use)

PRODUCT# IMI15652E (Concentrate)

#### Antibody Formats Supplied

5 ml of anti CD34, Ready-To-Use

0.2 ml of anti CD34, Concentrate

**SOURCE:** Purified cultured supernatant

**IMMUNOGEN:** Purified perfusate of human placenta

**IMMUNOGLOBULIN ISOTYPE:** IgG1

**Clone:** QBEnd/10

**POSITIVE CONTROL TISSUE:** Tonsil, Angiosarcoma, normal human skin

#### **REACTIVITY**

This anti human CD34 antibody reacts with a single chain transmembrane glycoprotein of 110 kD molecular weight. CD34 antigen is expressed on a vascular endothelium and on human lymphoid and myeloid and on human hematopoietic progenitor cells. This antibody is often employed in studying and characterization of leukemias and vascular tumors. This antibody is suitable for use on routinely fixed paraffin embedded or frozen sections or cell smears/ cytopspins. It is compatible with formalin fixed tissues/cells and with other commonly used histological fixatives.

#### **Antibody FORMATS, DILUTIONS and INCUBATIONS**

Monoclonal mouse anti CD34 antibody is affinity purified and it is provided in phosphate buffered saline pH 7.2 containing bovine serum albumin (BSA) and 0.05% sodium azide. This antibody is available in:

**5 ml of Ready-To-Use, Do not dilute. Incubate for 30 minutes.**

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

*For Background-Free retrieval, Innovex Uni-Trieve (60°C -70°C) universal retrieval solution is highly recommended. To retrieve with Uni-Trieve: Warm up a water bath or an oven to 60°C -70°C and fill a slide-holding container with Uni-Trieve solution. Place slides in a slide rack or in a coplin jar, fill the container with Uni-Trieve solution, bring the Uni-Trieve solution containing the slides to 60°C - 70°C and hold slides in warm Uni-Trieve solution 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 30-minute incubation, dilute 1:50. For one hour incubation time dilute 1:60-1:80. Retrieval is recommended.**

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THE SUGGESTED STARTING DILUTION FACTORS ARE MERE GUIDELINES ONLY. OPTIMAL DILUTION FACTORS MUST BE DETERMINED BY THE END USER FOR THE SECONDARY STAINING REAGENTS, SPECIMEN, STAINING PROTOCOL AND APPLICATION EMPLOYED.

*The above dilutions and incubation times were derived times by the use of Innovex STAT-Q and HISTO-STAT detection systems. 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 CD34 antigen in human tissue by a variety of immunoassays such as Immunocytochemistry, ELISA, Immunofluorescence labeling, Immunoblotting, dot blotting. In immunocytochemistry, this antibody can be used in staining routinely fixed paraffin embedded or frozen histological sections for the purpose of qualitative localization of CD34 antigens. This antibody can also be used for quantitative flow cytometric assays in the indirect method.

## **SPECIES REACTIVITY**

This antibody reactivity with human, mouse and rat 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***