



Monoclonal Antibody to **Anti-Human PECAM-1 (CD31)**

Technical Data Sheet

Reagent Category

Monoclonal primary antibody to
PECAM-1

Antibody Formats Supplied

- 5 ml of anti PECAM-1, Ready-To-Use
- 0.2 ml of anti PECAM-1, Concentrate

PRODUCT# IMI15561E (Ready-To-Use)

PRODUCT# IMI15552E (Concentrate)

SOURCE: Purified cultured supernatant

IMMUNOGEN: Purified human platelet antigen (PECAM-1)

IMMUNOGLOBULIN ISOTYPE: IgG1

CLONE: 1A10

POSITIVE CONTROL TISSUE: Placenta /Tonsil

REACTIVITY

PECAM-1 belongs to human intercellular adhesion molecule, PECAM-1 is a 140 kD single chain integral membrane glycoprotein that is expressed on endothelial cells, platelets, myeloid cells, NK cells, B cell and certain T cell sub-populations. PECAM-1 is also expressed on most peripheral blood lymphocytes, granulocytes, monocytes, thymocytes and PHA stimulated blasts. PECAM-1 antibody is used for identification of endothelial cells. It is reactive with most peripheral blood lymphocytes, granulocytes and monocytes and with 30% of thymocytes and PHA stimulated blasts, it is also highly reactive with platelets and endothelial cells. This antibody is suitable for use on routinely fixed paraffin embedded or frozen sections or cell smears. Refer to special usage guidance of this data sheet when employing this antibody on routinely fixed, paraffin embedded sections.

Antibody FORMATS, DILUTION and INCUBATION

Monoclonal mouse PECAM-1 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 pre-diluted, 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 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.

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□ **0.5 ml of concentrated.** The starting dilution range: 1:20-1:40 for 30 minute to one hour incubation. For longer incubation time the working titer must be determined by the end user. The provided dilution factors and incubation time 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 and the use of INNOVEX Enhancing Wash Buffer (see special usage guidance below). For less sensitive detection systems dilution factor may vary and they must be determined by the end user for specific detection system and the specimen employed.

APPLICATIONS

This antibody is intended for use in immunolocalization of PECAM-1 antigen in human tissue by a variety of immunoassays such as Immunocytochemistry, ELISA, immunofluorescence labeling, Immunoblotting, dot blotting and for use in functional assays in adhesion research. In immunohistochemistry, this antibody can be used in staining routinely fixed paraffin embedded or frozen histological sections for the purpose of qualitative localization of PECAM-1 antigens. This antibody can also be used for quantitative flow cytometric assays in the indirect method.

SPECIES REACTIVITY

This antibody reactivity with human 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