



Monoclonal Antibody to **CD11c**

Technical Data Sheet

Reagent Category

Monoclonal primary antibody to CD11c

Antibody Formats Supplied

□ 0.2 ml of anti CD11c, Concentrate

PRODUCT# IMI13752E (Concentrate)

SOURCE: Tissue culture supernatant

CLONE: 5D11

IMMUNOGEN: Human synovial cells and human monocytes

IMMUNOGLOBULIN ISOTYPE: IgG1

POSITIVE CONTROL TISSUE: Lymph node/ tonsil

REACTIVITY

This antibody reacts with CD11c, the alpha chain of the CD11c/ CD18 consisting of two-polypeptide chains With molecular weight of 150/150.95 integrin heterodimer. It is strongly expressed on tissue macrophages and monocytes and it is weakly expressed on granulocytes. This antibody strongly stains macrophages and monocytes, in flow cytometry, a certain T cell subset and a weakly B cell subset are labeled. This antibody is useful in identification of hairy cell leukemia and it s differentiation from non- Hodgkin's lymphoma or leukemia. This antibody is suitable for use on routinely fixed paraffin embedded and frozen sections and cytospin preparations (For staining paraffin sections, see special Usage Guidance of this data sheet).

STAINING PATTERN: Membrane staining

PRODUCT FORMATS, DILUTIONS and INCUBATIONS

This affinity purified CD11c monoclonal mouse antibody is provided in phosphate buffered saline pH 7.2 containing bovine serum albumin (BSA) and 0.05% sodium azide.

□ **0.5 ml of concentrate; Suggested starting dilution for 30 minute incubation is 1:10 for paraffin sections and 1:100 for frozen sections. The ultimate working dilution and incubation time must be determined by the end user for the method, secondary reagents and process employed.**

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

SPECIAL USAGE GUIDANCE

For staining paraffin sections, 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 is **highly recommended**. The use of Innovex

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Signal Enhancing Wash buffers **amplifies staining signal, eliminates the need for enzyme digestion pre-treatment, heat application** (retrieval procedure). It also **shortens the incubation time for the primary antibodies without addition of any extra steps to immunostaining procedures.**

APPLICATIONS

This antibody is intended for use in immunolocalization of CD11c antigens in tissues by a variety of immunoassays such as Immunochemistry in human and animal tissues, 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 CD11c antigens. This antibody can also be used for quantitative flow cytometric assays in the indirect method.

SPECIES REACTIVITY

This antibody reactivity with tissues of 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 LABORATORY USE ONLY