



Monoclonal Antibody to CD1a (Thymocytes)

Technical Data Sheet

Reagent Category

Monoclonal primary antibody to CD1a

PRODUCT# IMI14461E (Ready-To-Use)

PRODUCT# IMI14452E (Concentrate)

Antibody Formats Supplied

5 ml of anti CD1a, Ready-To-Use

0.2 ml of anti CD1a, Concentrate

SOURCE: Mouse

CLONE: JPM30

IMMUNOGEN: Human thymocytes

IMMUNOGLOBULIN ISOTYPE: IgG1

POSITIVE CONTROL TISSUE: Thymus or tonsil

REACTIVITY

This antibody reacts with CD1a, a membrane glycoprotein with a molecular weight of 49kD that is expressed in conjunction with beta-2 microglobulins. CD1a is strongly expressed on cortical thymocytes and on Langerhans cells. This antibody is further reactive with certain B cell subsets. This antibody is useful in defining the thymic stage of T cells and it is often employed in characterization of leukemias and lymphomas. It is suitable for use on routinely fixed paraffin embedded and frozen sections and cytospin preparations.

STAINING PATTERN: Membrane staining

PRODUCT FORMATS, DILUTIONS and INCUBATIONS

This affinity purified CD1a monoclonal mouse antibody is provided in phosphate buffered saline pH 7.2 containing bovine serum albumin (BSA) and 0.05% sodium azide.

5 ml Ready-to-Use, Do not dilute, Incubate for 30 minutes to 1 hour (range indicates the strength of the secondary staining reagents employed). 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 a 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 of concentrate; dilute 1:20-1: 40 for 30 minute incubation, for longer incubation time the working titer should be determined by the end user. This antibody best stains when formalin fixed paraffin embedded sections are retrieved.

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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 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 CD1a 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 CD1a 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.

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