



Monoclonal Antibody to CD4 (Helper/Inducer lymphocytes)

Technical Data Sheet

Reagent Category

Monoclonal antibody to CD4

Antibody Formats Supplied

5 ml of anti CD4, Ready-To-Use

0.2 ml of anti CD4, Concentrate

PRODUCT# IMI15761E (Ready-To-Use)

PRODUCT# IMI15752E (Concentrate)

SOURCE: Mouse ascites fluid

IMMUNOGEN: Purified human T-cell lymphocytes

IMMUNOGLOBULIN ISOTYPE: IgG

CLONE: 4B12

POSITIVE CONTROL TISSUE: Lymph node, Skin

STAINING PATTERN: Membrane staining

REACTIVITY

This anti human CD4 antibody is reactive with CD4 antigens present on human T cell lymphocytes. This antibody is 50-60% reactive with human peripheral T lymphocytes and 80% of thymocytes. This antibody is further reactive with a low level of human monocytes and macrophages, This antibody is non-reactive with B cell and granulocytes and thrombocytes. It is suitable for use on routinely fixed paraffin embedded and frozen sections and cytospin preparations.

Antibody FORMATS , DILUTIONS and INCUBATIONS

This affinity purified monoclonal monoclonal CD4 antibody is provided in phosphate buffered saline pH 7.2 containing bovine serum albumin (BSA) and 0.05% sodium azide.

5 ml of Ready-To-Use; **Do not dilute**. Incubate for 1-hour for paraffin sections.

This antibody best stains when formalin fixed paraffin embedded sections are gently retrieved with Uni-Trieve. CD antigens are heat labile and are destroyed by extreme heat . Avoid retrieving CD markers with microwave, steamer and pressure cookers.

For Background-Free, easy and gentle 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 of concentrate; **For paraffin section staining: Dilute 1:30-1:50 for 1-hour incubation. The dilution factors are considerably higher for 1 hour to over-night incubation. The dilution factor for frozen section staining and other applications are also considerably higher and it must be determined by the end user for the application and the secondary staining reagents employed. 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 (2-step) 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 CD4 antigens in tissue by a variety of Immunoassays such as Immunochemistry, fluorescent labeling, ELISA, Immunoblotting and dot blotting. In immunohistochemistry, this antibody can be used in staining routinely fixed paraffin embedded or frozen histological sections for the purpose of qualitative and /or quantitative localization of CD4 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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