



## Monoclonal Antibodies to CD21

### *Technical Data Sheet*

#### Reagent Category

Monoclonal primary antibody to CD21

#### Antibody Formats Supplied

0.2 ml of anti CD21 Concentrate

PRODUCT NUMBER: IMI14752E (Concentrate)

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**SOURCE:** Mouse ascites fluid

**IMMUNOGLOBULIN ISOTYPE:** IgG2a

**CLONE:** 2G9

#### **REACTIVITY**

CD21 antigen Belongs to the family of integral membrane glycoproteins, it is of type 1 of such glycoproteins with a molecular weight of 140kD. CD21 antigen is expressed in B cell chronic lymphocytic leukemias and a subset of T cell acute lymphocytic leukemias, CD21 is not expressed on T lymphocytes, monocytes, macrophages and granulocytes. This antibody is used to stain follicular dendritic cells and in phenotyping mature lymphomas and leukemias. This antibody is suitable for use on routinely fixed paraffin embedded sections and for frozen sections and cytospin cell preparations. This antibody is compatible with formalin fixative as well as most commonly used histological fixatives.

**POSITIVE CONTROL TISSUE:** Follicular lymphoma

**STAINING PATTERN:** Membrane staining

#### **Antibody FORMAT, DILUTION and INCUBATION**

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

0.2 ml of Concentrate, for paraffin section staining: Dilute 1:20 – 1:40 for 30-minute incubation. The dilution is higher for 1 hour to over-night incubation. 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.*

The dilution factor for frozen section staining and other applications are also considerably higher and must be determined by the end user for the application and the secondary staining reagents employed.

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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 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 CD21 by a variety of immunoassays such as Immunocytochemistry, fluorescent labeling, ELISA, Immunoblotting and 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 CD21. 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 PROFESSIONAL AND RESEARCH USE ONLY*