



## Monoclonal Antibody to CD7 (Lymphocytes)

### *Technical Data Sheet*

#### Reagent Category

Monoclonal antibody to CD7

#### Antibody Formats Supplied

□ 0.2 ml of anti CD7 Concentrate

PRODUCT# IMI17252E (Ready-To-Use)

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**SOURCE:** Mouse

**IMMUNOGLOBULIN ISOTYPE:** IgG2b

**CLONE:** LP-15

**POSITIVE CONTROL TISSUE:** Tonsil

**STAINING PATTERN:** Membrane staining

#### **REACTIVITY**

This antibody recognizes CD7 antigens, a 40kD transmembrane, single chain glycoprotein. CD7 is expressed on thymocytes, the precursor cells of T lymphocytes and on NK cells (natural killer cells) and on Pre-B cells. CD7 plays an important function in T and B cells interaction. CD7 antigen is a useful marker for detection of normal cells, T cell lymphomas and lymphoblastic lymphomas.

This CD7 antibody stains both paraffin and frozen sections. Retrieval is recommended for formalin fixed paraffin embedded sections, however, CD markers are heat labile and may get destroyed by very high temperature (pressure cooker or microwave). For best retrieval and staining results the use of Uni-Trieve, Innovex 60°C retrieval technology is highly recommended. See protocol below for Uni-Trieve.

#### **Antibody FORMATS, DILUTIONS and INCUBATIONS**

This affinity purified monoclonal CD7 antibody is provided in phosphate buffered saline pH 7.2 containing bovine serum albumin (BSA) and 0.05% sodium azide.

□ **0.2 ml Concentrate;** The working dilution and incubation time must be determined by the end user for the staining system and tissues employed. Suggested starting dilution: 1:50 for 1-hour 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 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.*

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## **APPLICATIONS**

This antibody is intended for use in immunolocalization of CD7 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 CD7 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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