

## Monoclonal Antibody to Human CD45RO

### *Technical Data Sheet*

#### Reagent Category

Monoclonal primary antibody to CD45RO

PRODUCT# MAB328P (Ready-To-Use)

PRODUCT# MAB328C (Concentrate)

#### Antibody Formats Supplied

7 ml of anti CD45RO, Ready-To-Use

0.2 ml of anti CD45RO, Concentrate

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**SOURCE:** Mouse ascites

**IMMUNOGEN:** IL-2 dependent T cell line (CA1)

**IMMUNOGLOBULIN ISOTYPE:** IgG2a

**CLONE:** UCHL-1

**POSITIVE CONTROL TISSUE:** Tonsil, lymph node, reactive lymph node

#### **REACTIVITY**

This antibody recognizes CD45RO, the 220 kD isoform of the CD45R subfamily that includes CD45RA, CD45RB and CD45RC. CD45RO is expressed on 48% of peripheral blood lymphocytes, 37% of CD4 (T helper cells), 80% of thymocytes and on the majority of T cell malignancies. CD45RO is also expressed on peripheral blood monocytes, tissue macrophages and on granulocytes. This antibody is often used in study and evaluation of T cell malignancies. This antibody is suitable for use on routinely fixed paraffin embedded, frozen sections and cell smears.

**STAINING PATTERN:** Membrane staining

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

Monoclonal mouse anti CD45RO antibody is provided in Innovex ImmunoDiluent containing phosphate salts, bovine serum albumin (BSA) and 0.05% sodium azide. This antibody is available in:

**7 ml of Ready-To-Use; Do not dilute; Incubate for 1-hour. This antibody best stains when formalin fixed paraffin embedded sections are retrieved.**

**0.2 ml Concentrate;** The starting dilution for paraffin section is **1:50-1:100 for 30-minutes to 1-hour incubation.** The optimal working dilution must be determined by the end user for the primary antibody incubation time, the staining reagents and the tissue employed. **This antibody best stains when formalin fixed paraffin embedded sections are retrieved.**

**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 cooker.**

#### **Retrieval Procedure with Innovex Uni-Trieve solution using a water bath:**

For Background-Free, easy and gentle retrieval, Innovex Uni-Trieve 70°C Universal Retrieval solution is highly recommended.

To retrieve with Uni-Trieve: Set a water bath to 70°C and fill a slide holding container or a coplin jar with Uni-Trieve solution, insert a thermometer in the jar containing Uni-Trieve solution and place it in the water bath. Bring the Uni-Trieve solution to 70°C and Place deparaffinized slides in this pre-warmed (70°C) Uni-Trieve solution. Let slides incubate in 70°C Uni-Trieve for 30-minutes. Remove slides from Uni-Trieve solution and rinse slides with 3-quick changes of water; No cooling period is required. Proceed with IHC or ICC OR IF staining.

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For more info and demonstration for use of Uni-Trieve visit web page:  
<http://www.innovexbio.com/products/unitrieve>

*The above dilutions and incubation times were derived by the use of Innovex STAT-Q & INNOVEX 1-step Polymer Histo-Stat 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 CD45RO antigens in tissues and cell preparations by a variety of immunoassays such as Immunohistochemistry (IHC), Immunocytochemistry (ICC), Immunofluorescence (IF), ELISA, Immunoblotting and dot blotting. This antibody can also be used in functional assays in adhesion research.

For IHC, ICC and IF testing, this antibody can be used for staining routinely fixed paraffin embedded tissue sections and frozen sections for the purpose of qualitative and /or quantitative localization of CD45RO antigens. This antibody can also be used for quantitative flow cytometric assays in the indirect (sandwich) method.

## **SPECIES REACTIVITY**

This antibody reactivity with human 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 PROFESSIONAL AND RESEARCH USE ONLY***

**FOR ADDITIONAL TECHNICAL SUPPORT**

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