



## Monoclonal Antibodies to **CD2**

### *Technical Data Sheet*

#### Reagent Category

Monoclonal primary antibody to CD2

#### Antibody Formats Supplied

□ 0.2 ml of anti CD2, Concentrate

PRODUCT# IMI14552E (Concentrate)

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**SOURCE:** Cultured supernatant

**IMMUNOGLOBULIN ISOTYPE:** IgG1

**CLONE:** AB75

#### **REACTIVITY**

CD2 is a monomeric glycoprotein involved in the adhesion of activated T cells, CD2 monoclonal antibody is a pan Tcell antibody that reacts with E-rosette receptor on Tcells, All human Tcells including the two major subsets of Tcells, mainly T suppressor cells (T8) and T helper cells (T4) cells can be identified with this antibody. This antibody is suitable for use on routinely fixed paraffin embedded and frozen sections, this antibody can also be used for staining cytosmeears, cytcentrifuge preparations. This antibody is compatible with formalin fixative as well as most commonly used histological fixatives.

**POSITIVE CONTROL TISSUE:** Small intestine

**STAINING PATTERN:** Membrane staining

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

This affinity-purified monoclonal antibody is provided in phosphate buffered saline pH 7.4 containing bovine serum albumin (BSA) and 0.05% sodium azide.

□ 0.2 ml of Concentrate, for paraffin section staining: Dilute 1:50-1:80 for 30-minute 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 must be determined by the end user for the application and the secondary staining reagents employed.

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.*

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## **SPECIAL USAGE GUIDANCE**

For best staining results, the use of Innovex signal-Enhancing Wash Buffers (Item#: IMI00396E for Immuno-Peroxidase staining and Item#: IMI00596E for Immuno-Alkaline-phosphatase) in place of PBS or Tris buffer for the rinsing in between the incubation steps is highly recommended. The use of Innovex Enhancing Wash Buffers greatly enhances staining signals for antigenically weak or for overfixed tissues. Its use further eliminates the need for enzyme Pre-digestion, heat application (retrieval procedure) and shortens the incubation time for the primaries antibodies without addition of any extra steps to immunostaining procedures.

## **APPLICATIONS**

This antibody is intended for use in immunolocalization of CD2 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 CD2. 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 IN VITRO RESEARCH USE ONLY***