



## Monoclonal Antibody to Human CD18 (beta-2 integrin)

### *Technical Data Sheet*

#### Reagent Category

Monoclonal primary antibody to CD18

PRODUCT# IMI14361E (Ready-To-Use)

PRODUCT # IMI14352E (Concentrate)

#### Antibody Formats Supplied

5 ml of anti CD 18, Ready-To-Use

0.2 ml of anti CD18, Concentrate

**SOURCE:** Mouse

**IMMUNGLOBULIN ISOTYPE:** IgG1

**IMMUNOGEN:** purified Gp90 & Gp160 molecule

**CLONE:** INV- CD18

#### **REACTIVITY**

CD18 is a 90 kD integral membrane glycoprotein that recognizes human CD18 cell surface antigen, the integrin beta-2 subunit common to each of the alpha chains of beta-2 integrin family: CD11a=Gp160 and Gp90 leukocyte common antigen. CD18 is expressed by majority of leukocytes, in particular on granulocytes, macrophages and lymphocytes and can be found in peripheral blood bone marrow, liver, lymph node and tonsil. CD18 is not present on platelets. CD18 is involved in blocking beta-2 integrin dependent cell adhesion. This antibody is suitable for use on routinely fixed paraffin embedded sections, frozen sections and cytospin cell preparations.

**STAINING PATTERN:** Membrane

**POSITIVE CONTROL TISSUE:** Tonsil

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

This affinity purified monoclonal mouse anti CD18 antibody is affinity purified and it is provided in phosphate buffered saline pH 7.2 containing bovine serum albumin (BSA) and 0.05% sodium azide. This antibody is available in:

5 ml of pre-diluted, Ready-To-Use, ***Do not dilute***. Incubate for 30 minutes to one hour.

**This antibody best stains when formalin fixed paraffin embedded tissue sections are retrieved. This antibody best stains when formalin fixed paraffin embedded tissue sections are retrieved.**

*For Background-Free retrieval, Innovex Uni-Trieve (60°C -70°C) universal retrieval solution is highly recommended. To retrieve with Uni-Trieve: Warm up a water bath or an oven to 60°C -70°C and fill a slide-holding container with Uni-Trieve solution. Place slides in a slide rack or in a coplin jar, fill the container with Uni-Trieve solution, bring the Uni-Trieve solution containing the slides to 60°C - 70°C and hold slides in warm Uni-Trieve solution for 30 minutes. Rinse slides with 2 quick changes of water. No cooling period is required. Proceed with immunostaining*

0.2 ml of concentrate. Dilute 1:10 for 30-minute incubation. Dilute 1: 20 for one-hour incubation. For longer incubation time the dilution factor must be determined by the end user.

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*The above dilutions and incubation times were derived times by the use of Innovex STAT-Q and HISTO-STAT detection system and INNOVEX Enhancing Wash Buffer. For less sensitive detection systems the incubation time may have to be increased.*

## **APPLICATIONS**

This antibody is intended for use in immunolocalization of CD 18 glycoprotein in human tissue by a variety of immunoassays such as Immunochemistry, ELISA, Immunofluorescence labeling, Immunoblotting, dot blotting. In immunochemistry, this antibody can be used in staining routinely fixed paraffin embedded or frozen histological sections for the purpose of qualitative localization of CD18 glycoprotein. This antibody can also be used for quantitative flow cytometric assays in the indirect method.

## **SPECIES REACTIVITY**

This antibody reactivity with human, mouse, rat, cat, dog and monkey has been substantiated, other species reactivity may be characterized by the end user.

## **STORAGE CONDITIONS**

Store in refrigerator at 2-8°C through the 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***