

6607115 - 100 tests

PN 4238117-B



**For Research Use Only.**  
**Not for use in diagnostic procedures.**

**SPECIFICITY**

The CD41 antigen (platelet  $\alpha$ IIb chain, integrin GPIIb), is a transmembrane glycoprotein. CD41 is composed of two chains, GPIIb $\alpha$  (120 kDa) and GPIIb $\beta$  (23 kDa), that are linked by a single disulfide bond.<sup>1</sup> CD41 is noncovalently associated with the integrin  $\beta$ 3 chain, also called GPIIIa or CD61.<sup>2</sup>

The P2 monoclonal antibody (mAb) reacts with GPIIb in the intact complex with GPIIIa, but not with GPIIb or GPIIIa separately.<sup>1,2</sup> The P2 monoclonal antibody has been assigned to the CD41 cluster of differentiation at the 5th International Workshop on Human Leucocyte Differentiation Antigens in Boston (1993).<sup>3</sup>

**REAGENTS**

IOTest CD41-PC7 Conjugated Antibodies  
PN 6607115 - 100 tests - 10  $\mu$ L/test

**CLONE:** P2

**ISOTYPE:** IgG1

**IMMUNOGEN:** Human platelets

**HYBRIDOMA:** SP2/O-Ag14 x BALB/c

**SOURCE:** Ascites fluid

**PURIFICATION:** Ion exchange or affinity chromatography

**CONJUGATION:** PC7 is conjugated at a Molar Ratio PC7/Ig: 0.5-1.5.

Excitation wavelength at 486-580 nm.

Emission wavelength at 710-800 nm.

**BUFFER:** 2 mg/mL bovine serum albumin in phosphate-buffered saline containing 0.1% sodium azide.

**STATEMENT OF WARNINGS**

1. This reagent contains 0.1% sodium azide. Sodium azide under acid conditions yields hydrazoic acid, an extremely toxic compound. Azide compounds should be flushed with running water while being discarded. These precautions are recommended to avoid deposits in metal piping in which explosive conditions can develop. If skin or eye contact occurs, wash excessively with water.
2. Specimens, samples and all material coming in contact with them should be handled as if capable of transmitting infection and disposed of with proper precautions.
3. Never pipet by mouth and avoid contact of samples with skin and mucous membranes
4. Do not use antibody beyond the expiration date on the label.
5. Do not expose reagents to strong light during storage or incubation.
6. Use Good Laboratory Practices (GLP) when handling reagent.
7. Harmful if swallowed.

8. After contact with skin, wash immediately with plenty of water.

**STORAGE CONDITIONS AND STABILITY**

Each reagent is stable up to the expiration date when stored at 2-8°C. Do not freeze. Minimize exposure to light.

**REAGENT PREPARATION**

No reconstitution is necessary. This monoclonal antibody may be used directly from the vial. Bring reagent to 18-25°C prior to use.

**PROCEDURE**

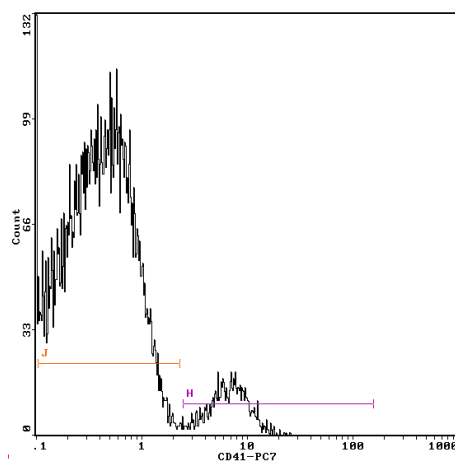
This reagent is designed for flow cytometry. Assay volume: 10  $\mu$ L per 1 x 10<sup>6</sup> cells in one test, or per 2.5  $\mu$ L whole blood.

**EXAMPLE DATA**

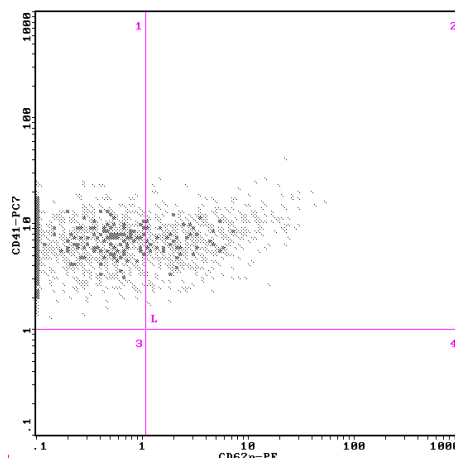
Figure 1 is a monoparametric representation (Count versus Fluorescence Intensity) of a normal whole blood sample stained with CD41-PC7 monoclonal antibody (PN 6607117) and gated on platelets. Figures 2 and 3 are dual parameter representations (FL2 vs FL3) of normal whole blood and PMA stimulated whole blood using CD41-PC7 and CD62p-PE gated on platelets.

Acquisition with a COULTER® EPICS® XL™/XL-MCL™ flow cytometer.

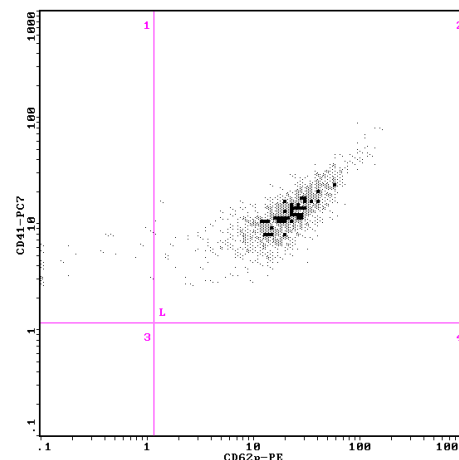
**Figure 1:**  
**Count vs. MFI**



**Figure 2:**  
**Normal Whole Blood**



**Figure 3:**  
**PMA Stimulated Whole Blood**



**SELECTED RESEARCH REFERENCES**

1. Blanchard, D., Borché, L., Petit-Frioux, Y., Müller, J.Y., "Cell expression and biochemical characterization of platelet antigens recognized by workshop platelet panel mAb", 1995, Leucocyte Typing V, White Cell Differentiation Antigens. Schlossman, S.F., et al., Oxford University Press, 1225-1229.
2. Phillips, D.R., Charo, I.F., Parise, L.V., Fitzgerald, L.A., "The platelet membrane gpIb/IIIa complex", 1988, Blood, 4, 831-843.
3. Silverstein, R.L., "Platelet antigens: Section report", 1995, Leucocyte Typing V, White Cell Differentiation Antigens. Schlossman, S.F., et al., Oxford University Press, 1195-1204.

**TRADEMARKS**

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Beckman Coulter, Inc.  
4300 N. Harbor Blvd.  
Fullerton, CA 92835  
[www.beckmancoulter.com](http://www.beckmancoulter.com)

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