

Analyte Specific Reagent.

Analytical and performance characteristics are not established.

SPECIFICITY

The CD41 antigen is the integrin α IIb chain, also called platelet gpIIb. The molecular weight of the recognized antigen is 135 kDa (1). CD41 is non-covalently associated with the integrin β 3 chain, also called gpIIIa or CD61 (2).

The P2 monoclonal antibody (mAb) reacts with gpIIb in the intact complex with gpIIIa, but not with gpIIb or gpIIIa separately (1, 2). The P2 mAb has been assigned to the CD41 cluster of differentiation during the 5th International Workshop on Human Leucocyte Differentiation Antigens in Boston, USA, in 1993 (WS Code: P086) (3).

REAGENT

IOTest CD41-FITC Conjugated Antibody
PN IM0649U – 2 mL Liquid – 20 µL / test*.

Clone	P2
Isotype	IgG1, mouse
Immunogen	Human platelets
Hybridoma	S2/0-Ag14 x Balb/c
Source	Ascites fluid
Purification	Ion exchange or affinity chromatography
Conjugation	FITC (Fluorescein isothiocyanate) is conjugated at 5 – 8 moles of FITC per mole of Ig.
Fluorescence	FITC (Green) Excites at 468 – 509 nm Emits at 504 – 541 nm

REAGENT CONTENTS

This reagent is provided in phosphate-buffered saline, with 0.1% sodium azide (NaN₃) as preservative, and 2.0 mg / mL bovine serum albumin (BSA).

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. Do not use antibody beyond the expiration date on the label.
3. Samples and all material coming in contact with them should be handled as if capable of transmitting infection and disposed of with proper precautions.
4. Never pipet by mouth and avoid contact of samples with skin and mucous membranes
5. Minimize exposure of reagent to light during storage or incubation.
6. Avoid microbial contamination of reagents or incorrect results might occur.
7. Use good laboratory practices when handling this reagent.

STORAGE CONDITIONS AND STABILITY

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

EVIDENCE OF DETERIORATION

Any change in the physical appearance of this FITC-labeled reagent (clear, colorless to yellowish-green liquid) or any major variation in values obtained for control samples may indicate deterioration and the reagent should not be used.

REAGENT PREPARATION

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

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., Eds., Oxford University Press, 1225-1229.
2. Phillips, D.R., Charo, I.F., Parise, L.V., Fitzgerald, L.A., "The platelet membrane gpIIb/IIIa complex", 1988, Blood, 4, 71, 831-843.
3. Silverstein, R.L., "Platelet antigens: Section report", 1995, Leucocyte Typing V, White Cell Differentiation Antigens. Schlossman, S.F., et al., Eds., Oxford University Press, 1195-1204.

PRODUCT AVAILABILITY

IOTest CD41-FITC Conjugated Antibody
PN IM0649U – 2 mL Liquid – 20 µL / test*.

For additional information in the USA, call 800-526-7694.

Outside the USA, contact your local Beckman Coulter representative.

www.beckmancoulter.com

TRADEMARKS

The Beckman Coulter logo and IOTest are trademarks of Beckman Coulter Inc.

Manufactured by:

Immunotech SAS, a Beckman Coulter Company

130, avenue de Lattre de Tassigny, B.P. 177
13276 Marseille Cedex 9, France

Copyright[®] Beckman Coulter, Inc. 2006
All Rights Reserved

(*) : 20 µL is the quantity of product sufficient to stain

5 x 10⁵ cells in a standard immunofluorescence assay