

### Analyte Specific Reagent.

Analytical and performance characteristics are not established.

### SPECIFICITY

The CD42a antigen (GPIX) is a transmembrane glycoprotein of 22 kDa which forms a non-covalent complex with CD42bc (GPIb) and CD42d (GPV) (1). The structure and functions of the CD42a-d complex are reviewed in ref. 2. CD42a expression is restricted to platelets and megakaryocytes (3).

The SZ1 monoclonal antibody reacts with CD42a only within the intact CD42a-d complex (4). As Ab# P085, SZ1 has been assigned to the CD42a cluster of differentiation at the 5th International Workshop on Human Leucocyte Differentiation Antigens in Boston, U.S.A., in 1993 (1).

### REAGENT

IOTest CD42a-FITC Conjugated Antibody  
PN IM1757U – 2 mL Liquid – 20 µL / test\*.

**Clone** SZ1

**Ig chain** IgG2a, Mouse

**Immunogen** Washed human platelets

**Hybridoma** X63-Ag8 x Balb/c

**Source** Ascites fluid

**Purification** Ion exchange or affinity chromatography

**Conjugation** FITC (Fluorescein isothiocyanate) is conjugated at 4 – 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 (NaN<sub>3</sub>) 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. Michelson, A.D., "CD42 cluster workshop report", 1995, Leucocyte Typing V, White Cell Differentiation Antigens.

Schlossman, S.F., et al., Eds., Oxford University Press, 1309-1310.

2. Lopez, J.A., Andrews, R.K., Afshar-Kharghan, V., Berndt, M.C., "Bernard-Soulier Syndrome", 1998, Blood, 12, 91, 4397-4418.
3. Blanchard, D., Borche, 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.
4. Du, X., Beuler, L., Ruan, C., Castaldi, P.A., Berndt, M.C., "Glycoprotein Ib and glycoprotein IX are fully complexed in the intact platelet membrane", 1987, Blood, 5, 69, 1524-1527.

### PRODUCT AVAILABILITY

IOTest CD42a-FITC Conjugated Antibody  
PN IM1757U – 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](http://www.beckmancoulter.com)

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

5 x 10<sup>5</sup> cells in a standard immunofluorescence assay