

### Analyte Specific Reagent.

Analytical and performance characteristics are not established.

#### SPECIFICITY

The CD42b antigen (GPIIb) is a membrane glycoprotein of 135 kDa, that forms a disulfide linked 160 kDa membrane protein with the CD42c (GP1bβ) known as GP1b. GP1b forms a noncovalent complex with GPIX (CD42a) and GPV (CD42d). This antigen is found on platelets and megakaryocytes. It has also been reported on vascular and tonsillar endothelial cells. The CD42a-d complex is the receptor for von Willebrand's factor and is known as von Willebrand's factor-dependent adhesion receptor (1 – 5).

The SZ2 monoclonal antibody has been assigned to the CD42b cluster of differentiation at the fifth International Workshop on Human Leucocyte Differentiation Antigens held in Boston, USA, in 1993 (1).

#### REAGENT

IOTest CD42b-PE Conjugated Antibody  
PN IM1417U – 2 mL Liquid – 20 µL / test\*.

<b>Clone</b>	SZ2
<b>Isotype</b>	IgG1, mouse
<b>Immunogen</b>	Human washed platelets
<b>Hybridoma Source</b>	P3-X63-Ag.8 x Balb/c Ascites fluid
<b>Purification</b>	Ion exchange or affinity chromatography
<b>Conjugation</b>	R-phycoerythrin (PE) is conjugated at 0.5 – 1.5 moles of PE per mole of Ig.
<b>Fluorescence</b>	PE (orange-red) Excites at 486 – 580 nm Emits at 568 – 590 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 PE-labeled reagent (clear colorless to pinkish 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, et al., Eds., Oxford University Press, p 1309-1310.
2. 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.

3. Ruan, C., Du, X., Xi, X., Castaldi, P.A., Berndt, M.C., "A murine antiglycoprotein Ib complex monoclonal antibody, SZ2, inhibits platelets aggregation induced by both ristocetin and collagen", 1987, Blood, 69, 570-577.
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, 69, 1524-1527.
5. Rivera, J., Lozano, ML., Corral, J., Gonzalez-Conejero, R., Martinez, C., Vicente, V., "Platelet GP Ib/IX/V complex: physiological role", 2000, J. Physiol. Biochem., 56, 355-365.

#### PRODUCT AVAILABILITY

IOTest CD42b-PE Conjugated Antibody  
PN IM1417U – 2 mL Liquid – 20 µL / test\*.

PE is licensed under patent 4,520,110.

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

Outside the USA, contact your local Beckman Coulter representative.

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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