PN IM1417 CD42b - PE (SZ2)

100 tests
20 µL/test

IOTest®
Conjugated Antibodies

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

SPECIFICITY

The molecular weight of the recognized antigen is 170 kDa.
Reacts with glycoprotein Ib on megakaryocytes and platelets.
Inhibits the ristocetin-dependent binding of Von Willebrand factor to platelets and ristocetin induced platelet agglutination.
Inhibits platelet aggregation induced by Type I collagen and platelet activating factor (PAF).
Immunoprecipitates the components of the glycoprotein Ib complex (1,2).

REAGENT

Clone	SZ2
Isotype	IgG1 mouse
Immunogen	Human washed platelets
Hybridoma	P3-X63-Ag.8.653 x Balb/c spleen cells
Source	Ascites fluid
Purification	Ion exchange or affinity chromatography
Conjugation	PE: R-phycoerythrin (PE) is conjugated at 0.7-1 mole of PE per mole of IgG.

Excitation wavelength: 488 nm
Maximum emission wavelength: 575 nm
Main emission color: Orange-red

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

APPLICATION

Flow cytometry
Studies have shown that the platelet gpIb glycoprotein is missing or present at very low levels in variants of the Bernard-Soulier Syndrome.
Studies of platelet functions.

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. Avoid microbial contamination of reagents or incorrect results might occur.

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 20 - 25 °C prior to use.

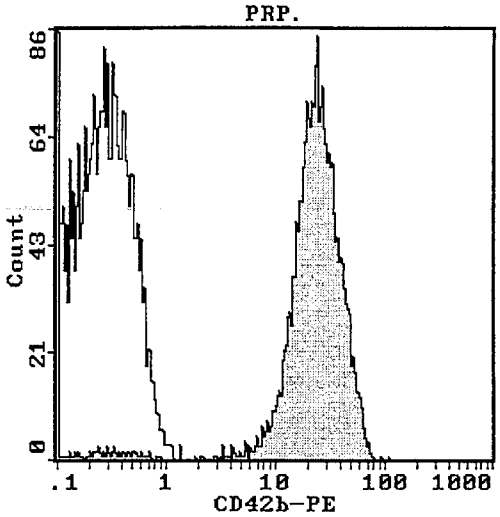
PROCEDURE

This reagent is designed for Flow Cytometry.
Assay volume: 20 µL/5 x 10^6 platelets/test.
A wash is required to yield optimal results.

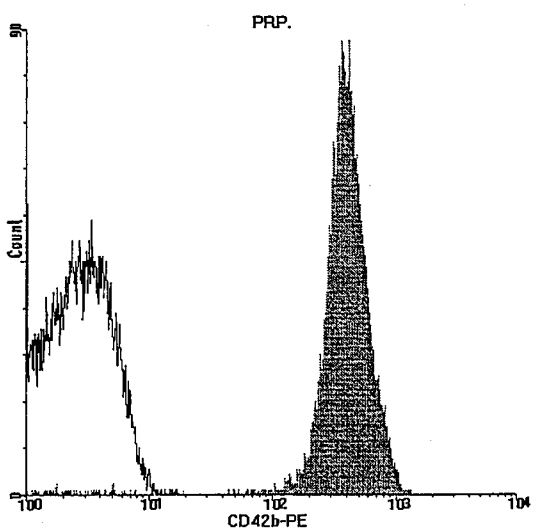
EXAMPLE DATA

The histograms below are monoparametric representations (Count versus Fluorescence Intensity) of an isolated platelet-rich plasma (PRP) fraction from a normal whole blood sample. Staining is with CD42b-PE monoclonal antibody (PN IM1417). The isotypic control labeling is underneath in light .

Acquisition is with a COULTER R EPICS R XL TM flow cytometer. Analysis is with the XL System II TM software.



Acquisition is with a Becton Dickinson FACScan TM flow cytometer. Analysis is with the LYSYS II TM software.



SELECTED RESEARCH REFERENCES

1-[249] 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, 2, 69, 570-577.
2-[791] Du, X., Beutler, L., Ruan, C., Castaldi, P.A., Berndt, M.C., "Gp Ib and gp IX are fully complexed in the intact platelet membrane", 1987, Blood, 5, 69, 1524-1527.

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