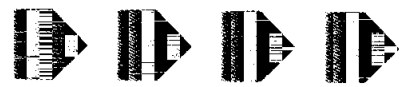


**PN IM2279****50 tests  
20 µL/test****CD36 - FITC  
GLYCO A - PE****IO Test®**  
Conjugated Antibodies

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

**SPECIFICITY**  
CD36

CD36 antigen is a generic term for a family of glycoproteins with molecular weights ranging from 78 to 88 kDa (1). CD36 occurs in different types of cells, including mammary epithelial cells, monocytes, macrophages, platelets, megakaryocytes and early erythroid cells.

The FA6-152 monoclonal antibody, raised against fetal erythrocytes, has been shown to recognize the CD36 family of antigens in platelets and certain hematopoietic cells (1). The antibody agglutinates fetal -but not adult- erythrocytes. It does not react with lymphocytes and granulocytes. It reacts with both fetal and adult monocytes, megakaryocytes, platelets, and with reticulocytes.

**Glycophorin A**

Glycophorin A is a sialoglycoprotein, expressed on human red blood cell membranes and erythroid precursors, including proerythroblasts, and reticulocytes (2,3).

**REAGENT**

<b>CD36</b>	<b>GLYCOPHORINE A</b>
FA6.152	11E4B7.6
IgG1 mouse	IgG1 mouse
X63-Ag8.653 x Balb/c spleen cells	NS1 x Balb/c spleen cells

**Source** Ascites Fluid**Purification** Ion exchange or affinity chromatography**Conjugations** FITC: Fluorescein isothiocyanate (FITC) is conjugated at 5 - 7 moles of FITC per mole of IgG.**Excitation wavelength:** 488 nm**Maximum emission wavelength:** 525 nm**Main emission color:** Green**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

**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**

Labelling on whole blood including red blood cells is not recommended due to the reactivity of the anti-glycophorin A antibody with these cells.

- 1) Pipet 100 µL of cell suspension into two tubes (1 control tube, 1 test tube).
- 2) In the test tube add 20 µL of the antibody combination. In the control tube add 20 µL of the isotypic control antibody combination (PN IM1203).
- 3) Incubate for 30 minutes at 4 °C in the dark.
- 4) Wash twice with PBS or HBSS.
- 5) Resuspend the cells in 100 to 500 µL of PBS or saline containing 0.5% formaldehyde.
- 6) Analyze with flow cytometer.

**EXAMPLE DATA**

The graphs below are biparametric representations (Fluorescence Intensity versus Fluorescence Intensity) of a normal whole blood sample. Red blood cells have not been lysed. Staining is with CD36-FITC / Glyco A-PE dual color reagent (PN IM2279) gated on red blood cells (on a Forward Log versus Side Log scattered light diagram). Isotypic control staining (PN IM1203) on red blood cells is limited in the double negative quadrant (quadrant 3) (results not shown).

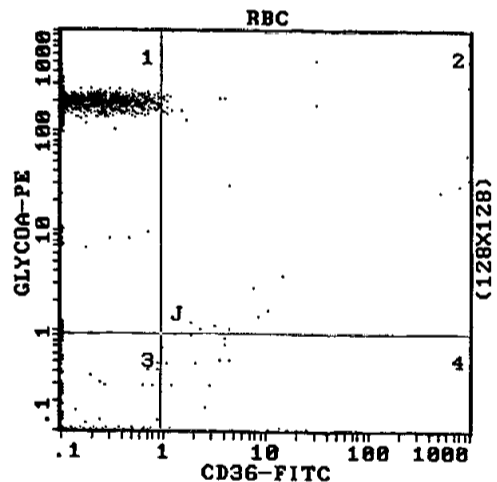
\*Upper left quadrant (1) contains CD36- Glyco A+ representing the red blood cells.

\*Upper right quadrant (2) contains double positive CD36+ Glyco A+ red blood cells events which normally do not happen.

\*Lower left quadrant (3) contains double negative events CD36- Glyco A-.

\*Lower right quadrant (4) contains CD36+ Glyco A- events which normally do not happen or may sign the presence of platelets on the red blood cells gate.

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

**COULTER**

PARTNERS IN CELL ANALYSIS

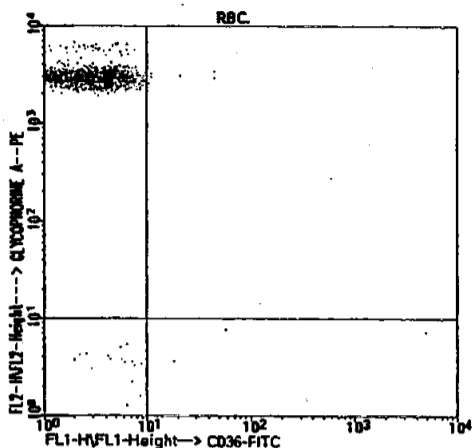
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A COULTER COMPANY

2279EX040298 04/02/98 AC-98017

**PN IM2279 CD36 - FITC**  
**50 tests**  
**20 µL/test**  
**GLYCO A - PE**

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

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



**SELECTED RESEARCH REFERENCES**

- 1-[284] Greenwalt, D.E., Lipsky, R.H., Ockenhouse, C.F., Ikeda, H., Tandon, N.N., Jamieson, G.A., "Membrane glycoprotein CD36: a review of its roles in adherence, signal transduction, and transfusion medicine", 1992, *Blood*, 5, 80, 1105-1115.
- 2-[151] Chesis, J.A., Reid, M.E., Ronald, H.J., Mohandas, N., "Signal transduction by glycophorin A: role of extracellular and cytoplasmic domains in a modulatable process", 1988, *J. Cell Biol.*, 107, 1351-1357.
- 3-[152] Calmel, B., Wilson, K.M., Kemp, B.E., "Kinetics of the autologous red cell agglutination test", 1993, *J. Immunol. Meth.*, 165, 183-192.
- 4-[1100] Edelman, P., Vinci, G., Villeval, J.L., Valinchenker, W., Henri, A., Migliorina, R., Rouger, P., Reviron, J., Breton Gorius, J., Sureau, C., Edelman, L., "A monoclonal antibody against an erythrocyte ontogenic antigen identifies fetal and adult erythroid progenitors", 1986, *Blood*, 67, 56-63.

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130, avenue de Lattre de Tassigny B.P. 177 13276 MARSEILLE Cedex 9 (FRANCE)  
 Tel : (33) 4 91 17 27 00 - Fax : (33) 4 91 41 43 58 - e-mail : abmarket@immunotech.fr