

# Monoclonal Antibody IOTest® CD235a - PC7

PN A71564 – 100 tests – Liquid – 10 µL/test\* – Clone 11E4B-7-6 (KC16)

## Analyte Specific Reagent.

Analytical and performance characteristics are not established.

### SPECIFICITY

CD235a, also known as Glycophorin A, is a sialoglycoprotein expressed on the surface of erythroblastic precursor cells (from the pro-erythroblast stage) of reticulocytes and mature red blood cells (1 – 3).

The monoclonal antibody 11E4B-7-6 (KC16) reacts with the 27-39 terminal N amino acid sequence of Glycophorin A and does not recognize Glycophorin B (3).

It was assigned to CD235a during the 7th HLDA Workshop on Human Leucocyte Differentiation Antigens, held in Harrogate, England, in 2000 (WS Code : 70359, Section: Red Cells) (4).

### REAGENT

IOTest CD235a-PC7 Conjugated antibody  
PN A71564 - 100 tests - Liquid - 10 µL/test\*

<b>Clone</b>	11E4B-7-6 (KC16)
<b>Isotype</b>	IgG1, Mouse
<b>Immunogen</b>	Human red blood cells
<b>Hybridoma</b>	NS1 x spleen B cells
<b>Source</b>	Ascites fluid
<b>Purification</b>	Protein A affinity chromatography
<b>Conjugation</b>	R Phycoerythrin-Cyanine 7 (PC7)
<b>Molar Ratio</b>	PC7 / Ig : 0.5 - 1.5
<b>Fluorescence</b>	Excites at 488 nm Emits at 770 nm

### REAGENT CONTENTS

This antibody is provided in phosphate-buffered saline, containing 0.1% sodium azide and 2 mg/mL bovine serum albumin.

### STATEMENTS OF WARNING

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.
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.

### REAGENT PREPARATION

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

### PRECAUTIONS

Due to the tandem structure of the fluorochrome, PC7 also emits light at 575 nm. This secondary emission peak varies from lot-to-lot of PC7. Therefore, for multi-color analysis, the compensation matrix should be carefully checked when changing the lot of a PC7-conjugate.

### SELECTED RESEARCH REFERENCES

1. Chasis, J.A., Mohandas, N., "Red blood cell Glycophorins", 1992, Blood, 80, 1869-1879.
2. Chasis, 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. Catimel, B., Wilson, K.M., Kemp, B.E., "Kinetics of the autologous red cell agglutination test", 1993, J. Immunol. Methods, 165, 183-192.
4. Van der Schoot, C.E., Baardman, R., Lighthart, P., de Jong, I., EG KR von dem Borne, A., de Haas, M., "Red Cell Section: Section Report", 2000, Leucocyte Typing VII, White Cell Differentiation Antigens, D. Masson, et al., Eds., Oxford University Press, 566-604.

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### MANUFACTURED BY :

IMMUNOTECH SAS  
a Beckman Coulter Company  
130, avenue de Lattre de Tassigny  
B.P. 177 - 13276 Marseille Cedex 9  
France

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

Outside the USA, contact your local Beckman Coulter representative.

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(\*): 10 µL is the quantity of product sufficient to stain  
5 x 10<sup>5</sup> cells in a standard immunofluorescence assay